Hausted®

OPERATING MANUAL

Hausted® Surgi-Stretchers
Models: 578 (Hydraulic Models)
5E8 (Electric Models)
5D8 (Electric Models)
5E7 (Electric Models with Hydraulic Hi/Lo)
5D7 (Electric Models with Hydraulic Hi/Lo)
GFH1300077RevB13

GF HEALTH PRODUCTS, INC.

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A WORD FROM GF HEALTH PRODUCTS, INC.

This manual contains important information on proper use and maintenance of the Hausted® Surgi-Stretcher. All personnel involved in the use and maintenance of this equipment must carefully review and comply with the warnings, cautions and instructions contained in this manual. These instructions are important to protect the health and safety of personnel operating a Hausted Surgi-Stretcher and should be retained in a conveniently accessible area for quick reference.

Complete instructions for uncrating this stretcher are provided in section 2 of this manual. If missing, contact GF Health Products, Inc. for replacement copies, with the serial and model nos. of the unit.

GF Health Products, Inc. carries a complete line of accessories for use with this stretcher. Your representative will gladly review these with you.

Indications for Use

The Hausted® Surgi-Stretchers are intended for use in patient treatment, transport or recovery.

The articulating head piece with dual operating control knobs allows for adjustability and precise movement of the head section. Patient positioning is convenient and easy for both care provider and patient with the electric/battery powered controls for adjustment of height, backrest and knee flex.

Service Information

A thorough preventive maintenance program is essential to safe and proper unit operation. This manual contains maintenance schedules and procedures which should be followed for satisfactory equipment performance.

We encourage you to contact GF Health Products, Inc. with any maintenance concerns.

Advisory

A listing of the safety precautions to be observed when operating and servicing this equipment can be found in Section 1 of this manual. Do not operate or service the equipment until you have become familiar with this information.

Any alteration of this equipment not authorized or performed by GF Health Products, Inc., which could affect its operation, will void the warranty, could adversely affect sterilization efficacy, could violate national, state, and local regulations, and could jeopardize your insurance coverage.

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Class 1 Equipment
Type B Equipment

Equipment not suitable for use in the presence of flammable anesthetic mixture with air or oxygen or nitrous oxide.
IPX4 (Splash-proof equipment)
Not suitable for continuous operation (Duty Cycle: 10% 2 minutes in 18 minutes)

The base language of this document is ENGLISH. Any translations must be made from the base language document.

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LISTING OF WARNINGS AND CAUTIONS 1

The following Safety Precautions must be observed when operating or servicing this Hausted® Surgi-Stretcher. WARNING indicates the potential for personal injury and CAUTION indicates the potential for damage to equipment. For emphasis, certain Safety Precautions are repeated throughout the manual. It is important to review ALL Safety Precautions before operating or servicing the unit.

Strictly following these Safety Precautions enhances your ability to safely and effectively utilize the unit and helps the customer avoid improper maintenance methods which may damage the unit or render it unsafe. It is important to understand that these Safety Precautions are not exhaustive; customers are encouraged to develop their own safety policies and procedures to enhance and compliment these Safety Precautions.

WARNING–LACERATION HAZARD:

When cutting bands always use a tool specifically designed for that purpose. This will help to avoid personal injuries frequently incurred when bands are cut and tension released.

WARNINGS – PERSONAL INJURY:

Do not sit on end – tipping may occur.

Be sure I.V. rod is inserted completely into socket up to the arrow before applying load.

To reduce the risk of electric shock, do not remove the cover. For service options contact GF Health Products, Inc.

To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth.

See Section 3 for the Warnings below:

WARNINGS – CAUTIONS AND PROPER OPERATION:

The stretchers have a warning label located at the foot end stating: Maximum patient weight 326 Kilograms (720 lbs).

Patient entry, egress and transfer should always be done with the brakes locked.

The brakes should always be locked and patient side rails up when patient is not in transport.

The patient pendant has a warning label on it stating: Clip pendant to rail when not in use – keep cord clear of moving parts.

It is important to remember that all electric stretchers are equipped with a built in battery back-up system but: it is recommended that the unit remain plugged into wall receptacle during normal use. The battery back-up is intended for transport and emergency only.

The fowler backrest quick drop handle is intended to be used during emergency situations only.

Be sure rail is locked before leaving patient.

The lock out knobs deactivate both the patient pendant and the control panel.

Floors must be smooth and level to maintain optimum fifth wheel steering. Fifth wheel steering functions can be influenced by floor irregularities (bumps or dips) greater than 1/2” (13 mm) across the span of the stretcher.

Medical Electrical Equipment needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in this manual.

LISTS OF WARNINGS AND CAUTIONS 1

WARNING — CAUTIONS AND PROPER OPERATION (Continued):

⚠ Portable and mobile RF communications equipment can affect Medical Electrical Equipment.

⚠ The use of accessories, transducers, and cables other than those specified by the manufacturer may result in increased Emissions or decreased Immunity of the Hausted Equipment.

⚠ The Hausted Equipment should not be used adjacent to or stacked with other equipment if adjacent or stacked use is necessary, the Hausted equipment should be observed to verify normal operation in the configuration in which it will be used.

⚠ Steam cleaning and pressure washing of stretcher is not recommended and can void warranty

WARNINGS — RELATED TO SERVICE AND REPAIR:

⚠ The stretcher has a warning label located on the control box cover stating: To reduce the risk of electrical shock do not remove the cover. Service by qualified personnel only.

⚠ The batteries are wired in series, failure to install or rewire the same way may cause the batteries to explode.

⚠ Always disconnect the power source whenever troubleshooting or servicing any electric powered stretcher.

⚠ Do not modify this equipment without the authorization of the manufacturer.

⚠ To turn electic controls on, plug into wall receptacle. To turn off, remove plug from wall receptacle. The electric powered stretchers do not have a seperate on/off switch.

WARNING — NOTICE FOR CALIFORNIA CUSTOMERS-

⚠ California Proposition 65 Warning: This product contains a chemical known to the State of California to cause cancer and reproductive or developmental harm.

UNCRATING INSTRUCTIONS 2

⚠ IMPORTANT — REPORT ANY SHIPPING DAMAGE IMMEDIATELY:

Inform shipper of any damages - leave carton intact. Leave equipment in the receiving area until inspection is complete.

⚠ CAUTION — POSSIBLE EQUIPMENT DAMAGE:

The crate contains fragile, expensive medical equipment. Uncrate and handle carefully

If after uncrating the equipment you find any damage (no matter how slight), report the damage to GF Health Products, Inc.

⚠ WARNING — PERSONAL INJURY HAZARD:

When cutting bands, always use tool specifically designed for that purpose. This will help avoid personal injuries frequently incurred when bands are cut and tension is released.

ENVIRONMENTAL CONDITIONS:

Operating

Temperature -	5°C to +40°C
Relavitive Humidity -	20% to 90% @ 30°C
Atmospheric Pressure -	700 to 1060 hPa

Storage and Transport

Temperature -	-10°C to +50°C
Relavitive Humidity -	20% to 90% @ 30°C
Atmoshperic PressurE -	700 to 1060 hPa

IMPORTANT: Follow each step in the order shown in these instructions.

UNPACKING INSTRUCTIONS:

Your Hausted equipment has been carefully packed at our manufacturing plant to ensure safe shipment to your medical facility. There are several procedures you must follow to put your new equipment in service. These procedures only take a few minutes to complete and all are required to ensure proper operation of the equipment.

1. Cut the two bands around the shipping carton.

2. Remove the top half of the carton and cut one side of the bottom half.

3. Remove the equipment from the carton.

4. Check to see if all features of the equipment work properly. If all the features work, advance to step 5. If any of the features do not work properly, call GF Health Products, Inc. at 678.291.3165.

Note: Although the equipment has been fully charged prior to shipment, plug the unit into a wall socket prior to checking any electric features.

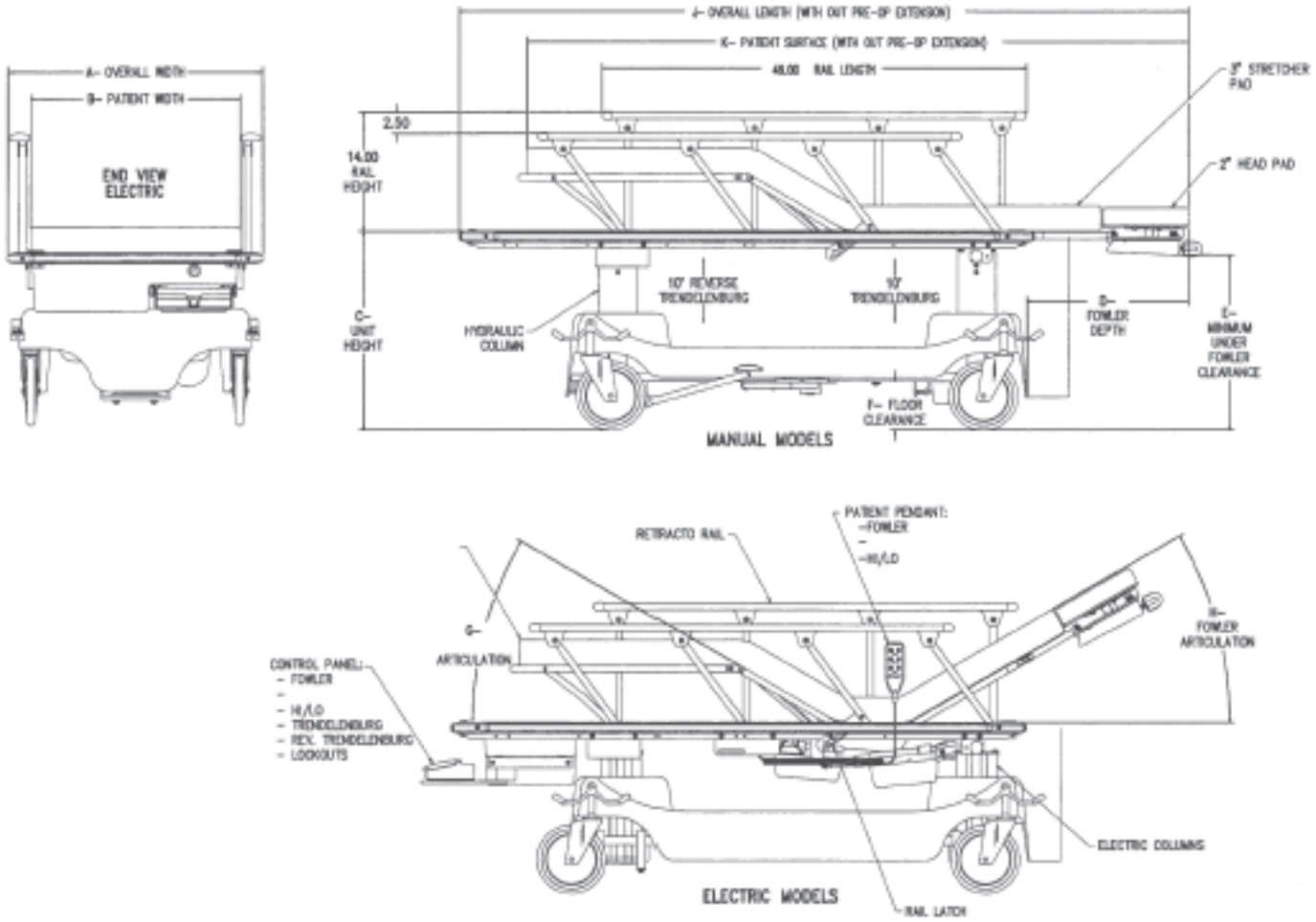
5. Clean the equipment using mild detergent to remove any dirt accumulated during shipment, and place the equipment into service.

OPERATING INSTRUCTIONS 3

3.1 S SPECIFICATIONS

NOTE: All dimensions are specified in inches. All dimensions are +/-.375.

GF Health Products, Inc. reserves the right to change specifications without notice.



Electrical Specifications (Applies only to 5E7 and 5E8 Models)

Product Classification:	1
Input Voltage:	120V~, 60Hz
Amperage:	Max. 4.0A
Duty Cycle:	10% 2 Min in 18 Min
IP Rating:	IPX 4
Grounding Protection:	Type B

Electrical Specifications (Applies only to 5D7 and 5D8 Models)

Product Classification:	1
Input Voltage:	230V~, 50Hz
Amperage:	Max. 2.0A
Duty Cycle:	10% 2 Min in 18 Min
IP Rating:	IPX 4
Grounding Protection:	Type B

3.2 FEATURES, WARNINGS AND PROPER OPERATION

⚠ WARNINGS– CAUTIONS AND PROPER OPERATION:

Do not sit on end – tipping may occur.

A. The stretchers have a warning label located at the foot end stating: Maximum patient weight 226 kilograms (500 lbs).

B. Patient entry, egress and transfer should always be done with the breaks locked.

C. The brakes should always be locked and patient side rails up when patient is not in transport.

D. The patient pendant has a warning label on it stating: Clip pendant to rail when not in use – keep cord clear of moving parts.

E. It is important to remember that all electric stretchers are equipped with a built-in battery back-up system but: it is recommended that the unit remain plugged into wall receptacle during normal use. The battery back-up is intended for transport and emergency only.

F. The fowler backrest quick drop handle is intended to be used during emergency situations only.

G. Be sure rail is locked before leaving patient.

H. The lock out knobs deactivate both the patient pendant and the control panel.

I. Floors must be smooth and level to maintain optimum fifth wheel steering. Fifth wheel steering functions can be influenced by floor irregularities (bumps or dips) greater than 1/2" (13 mm) across the span of the stretcher.

⚠ WARNINGS– RELATED TO SERVICE AND REPAIR:

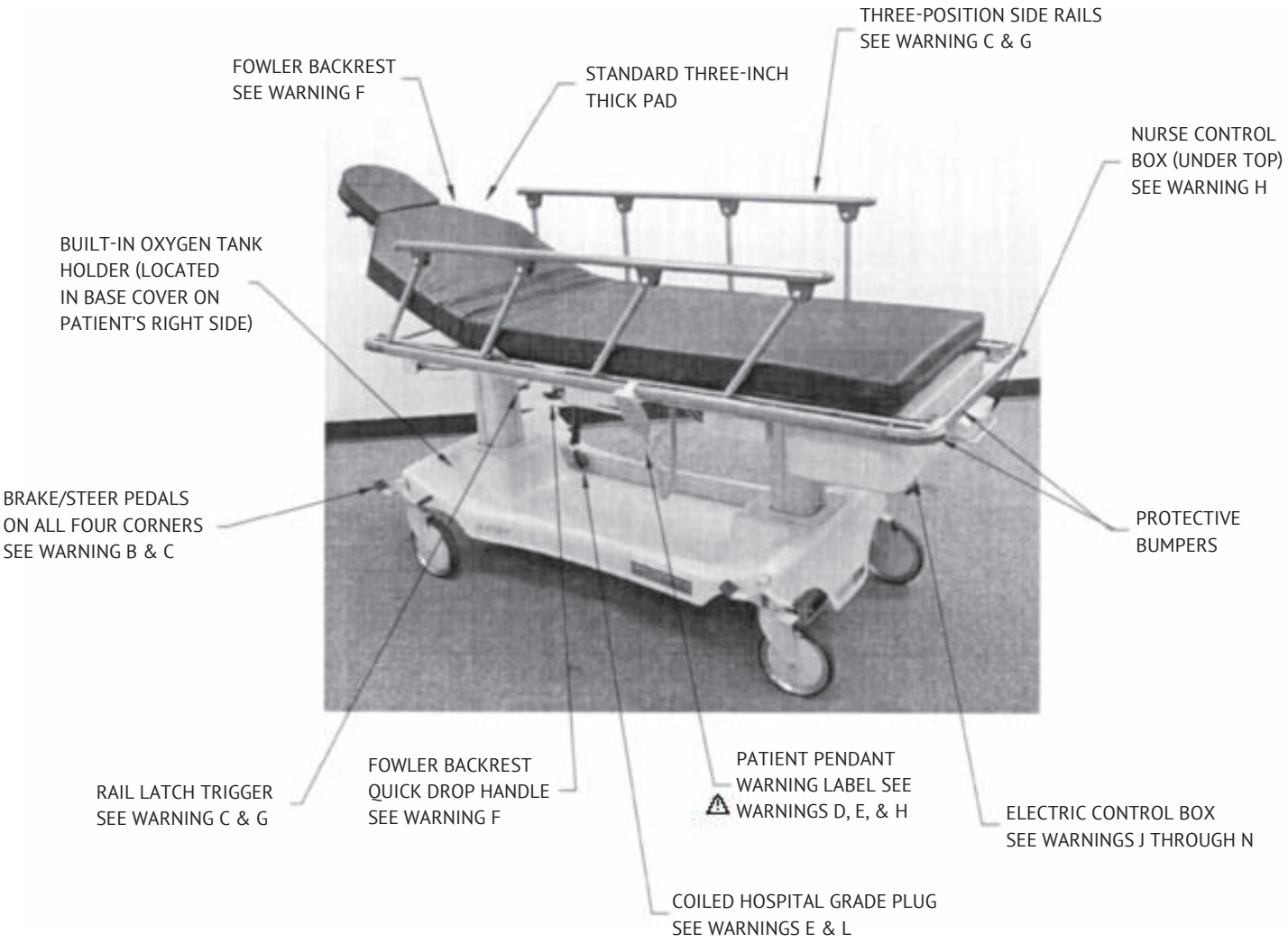
J. To turn electric controls on, plug into wall receptacle. To turn off, remove plug from wall receptacle. Electric powered stretchers do not have a separate on/off switch.

K. The stretcher has a warning label located on the control box cover stating: to reduce the risk of electrical shock do not remove the cover, service by qualified personnel only.

L. Always disconnect the power source whenever servicing any electric powered stretcher.

M. The batteries are wired in a series. Failure to rewire the same way may cause the batteries to explode.

3.2 FEATURES, WARNINGS AND PROPER OPERATION



3.3 BRAKING AND STEERING OPERATION

3.3.1 Applying the Brakes

The four wheel central braking system is activated by depressing the red pedal at any of the four corners of the unit (Figure 3-1). To fully engage the brakes, the pedal should be pressed to approximately 45º. All four caster wheels should be locked from swiveling and rotating.

FIGURE 3-1

3.3.2 Releasing the Brakes

Depress the green pedal at any of the four corners of the unit, until the pedal is in a horizontal position (Figure 3-2). All four wheels should rotate and swivel freely.

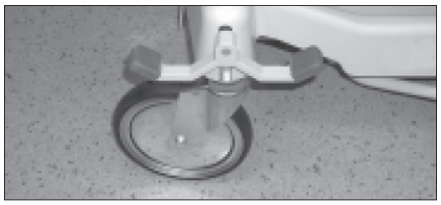


FIGURE 3-2

NOTE: Brakes should always be activated when unit is not in transport.

3.3.3 Applying the Steering Lock/Fifth Wheel

From any corner of the stretcher, depress the green pedal downward into locked position (Figure 3-3). Push the stretcher forward. Either one caster at the foot end will lock into a non-swivel mode, or the optional fifth wheel will lower and apply pressure to the floor. This allows straight steering by the attendant.

FIGURE 3-3

⚠ WARNING - PROPER OPERATION

Floors must be smooth and level to maintain optimum fifth wheel steering. Fifth wheel steering functions can be influenced by floor irregularities (bumps or dips) greater than 1/2" (13 mm) across the span of the stretcher.

3.3.4 Releasing the Steering Lock/Fifth Wheel

Depress the red pedal at any of the four corners of the unit, until the pedal is in a horizontal position (Figure 3-2). All four wheels should rotate and swivel freely, and/or the optional fifth wheel will retract.

3.4 STRETCHER TOP HEIGHT ADJUSTMENT (HYDRAULIC MODELS)

3.4.1 Height Adjustment

Press the pump pedal to the floor (Figure 3-4), then release. Repeat this process until desired height is obtained. Use smooth strokes on the pedal to ensure patient comfort.

FIGURE 3-4

3.4.2 Lowering Litter Top

Press down on the two release pedals at the same time (Figure 3-5) until desired height is obtained.

NOTE: Do not stand on release pedals.

FIGURE 3-5

3.4.3 Trendelenburg Adjustment

Place the unit at maximum height, see “Height Adjustment”. Press down on the release pedal nearest the head end (Figure 3-6) until desired position is obtained. Then remove pressure.

FIGURE 3-6

3.4.4 Reverse Trendelenburg Adjustment

Place the unit at maximum height, see “Height Adjustment”. Press down on the release pedal nearest the foot end (Figure 3-7) until desired position is obtained. Then remove pressure.

FIGURE 3-7

3.5 BACKREST/KNEE FLEX OPERATION (HYDRAULIC MODELS)

3.5.1 Raising the Backrest/Knee Flex

To elevate the backrest or knee flex, flip the crank handle upwards, and rotate the crank handle clockwise (Figure 3-8). When the desired position is reached, stop the rotating motion and return the crank handle to its original position (Figure 3-9).

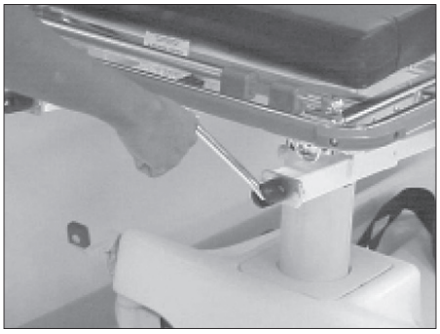


FIGURE 3-8

3.5.2 Lowering the Backrest/Knee Flex

To lower the backrest or knee flex, flip the crank handle upwards, and rotate the crank handle counterclockwise (See Figure 3-8). when the desired position reached, stop the rotating motion and return the crank handle to its original position (See Figure 3-9).

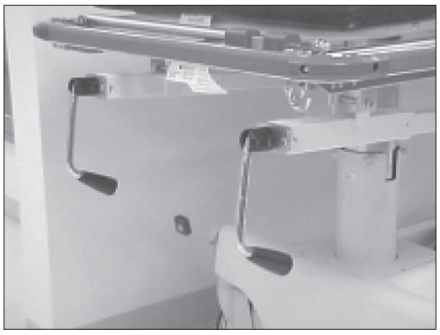


FIGURE 3-9

3.6 ELECTRIC CONTROL LOCATIONS (ELECTRIC MODELS)

3.6.1 Nurses Control Panel

To access the nurses control panel pull out on the handle located at the foot end of the unit, under the top. (Figure 3-10 and Figure 3-11).

FIGURE 3-10

FIGURE 3-11

3.6.2 Patient Pendant

The patient pendant has an adjustable location and may be located along either side rail (Figure 3-12).

⚠ CAUTION:

Clip pendant to rail when not in use.
Keep cord clear of moving parts.

FIGURE 3-12

3.6.3 Plug Locations

The stretcher is equipped with battery back up for transport but should be plugged into a wall receptacle when not in transport. the plug is stored on a hook under the head section of the top, on the patient left side (Figure 3-13). remove the coiled plug from the hook and plug into the nearest wall receptacle. Do not position the unit so that it is difficult to disconect the plug.

Figure 3-13

Important:

It is recommended that unit remain plugged into wall receptacle during normal use. Battery back-up is intended for transport and emergency only

3.6 ELECTRIC CONTROL LOCATIONS (ELECTRIC MODELS)

3.6.4 Emergency Electric Backrest Override

The unit is equipped with a fowler backrest quick drop handle which is located under the stretcher top on the patient right. (Figure 3-14). This option is only to be used in an emergency situation. The label states: Emergency drop backrest. Pull handle to activate.

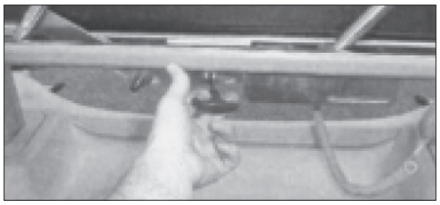


FIGURE 3-14

FIGURE 3-15

3.6.5 Low Battery Light

The stretcher is equipped with a low battery indicator light, located on the nurse control panel positioned just above row 3, column 3 and will blink when the unit's battery is low and needs recharging. If use of the unit is continued without being attached to a power supply, the Battery Indicator Light will cease to blink and will remain illuminated. This indicates that the battery charge is critically low and a power source is needed.

3.6.6 Charge Indicator Light

The charge indicator light is positioned in the left bottom corner of the nurse control panel (row 3, column 1), and will illuminate whenever the unit is plugged in to the wall.

3.7 STRETCHER TOP ADJUSTMENT (ELECTRIC MODELS)

⚠ Caution:

The lock-out deactivates pendant and control panel.

3.7.1 Hand Pendant Functions

Foot Section Adjustment:

Raising - Press the first button on the second row of buttons on the pendant (Figure 3.16). Hold until the desired angle is achieved. Lowering - Press the second button on the second row of buttons on the pendant hold until the desired angle is acheived.

FIGURE 3.16

FIGURE 3.17

Back Section Adjustment

Raising - Press the first button on the first row of buttons on the pendant (Figure 3.17). Hold until the desired incline is acheived. Lowering - Press the second button on the first row of buttons on the pendant. Hold until the desired recline is acheived.

FIGURE 3.18

Simultaneous Back & Foot Section Adjustment:

Raising - Press the first button on the third row of buttons on the pendan . Hold until the desired angle is acheived. Lowering - Presss the second button on the third row of buttons on the pendant (Figure 3.18). Hold until the desired angle is acheived.

FIGURE 3.19

Height Adjustment:

Raising - Press the first button on the fourth row of buttons on the pendant . Hold until the desired angle is acheived. Lowering - Presss the second button on the fourth row of buttons on the pendant (Figure 3-19). Hold until the desired angle is acheived.

3.7.1 Hand pendant Functions Cont.

Trendelenburg Adjustment

Lockout: See “Lockout” in the Section 3.7.3 Height Adjustment Instructions.

Nurse: Trendelenburg: Press the second button on the bottom row of buttons (Figure 3.19). Hold in the button until desired angle is achieved.

Rev-Trendelenberg: Press the first button on the bottom row of buttons (Figure 3.21). Hold in the button until desired angle.

FIGURE 3-20

FIGURE 3-21

3.7.2 Nurse Control Functions

Back Section Adjustment

Press and hold down the first button on the top row (top left). At the same time, press and hold down the UP or DOWN arrow button which corresponds to the desired direction of travel (Figure 3.22). Hold until the preferred angle is acheived.

FIGURE 3-22

Foot Section Adjustment

Press and hold down the second button on the top row. At the same time, press and hold down the UP or DOWN arrow button which corresponds to the desired direction of travel (Figure 3.23). Hold until the preferred angle is achieved.

FIGURE 3-23

Height Adjustment

Press and hold down the third button on the top row. At the same time, press and hold down the UP or DOWN arrow button which corresponds to the desired direction of travel (Figure 3.24). Hold until the preferred height is achieved.

FIGURE 3-24

3.7.2 Nurse Control Functions Cont.

Trendelenburg Adjustment

Press and hold down the last button on the top row (top right). At the same time, press and hold down the UP or DOWN arrow button which corresponds to the desired direction of travel
(Figure 3.25). Hold until the preferred Trendelenburg angle is achieved.

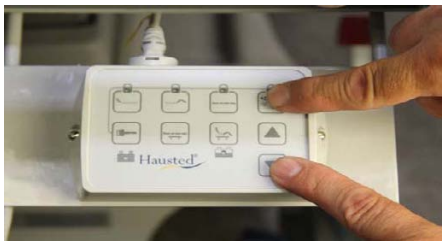


FIGURE 3-25

Simultaneous Back & Foot Section Adjustment

Press and hold down the third button from the right on the second row (row 2, column 3). At the same time, press and hold down the UP or DOWN arrow button which corresponds to the desired direction of travel (Figure 3.26). Hold both buttons until the desired angle is achieved.

FIGURE 3-26

Neutral Return

The neutral return button is a function that allows the unit to return to its naturally retracted position where the patient surface will completely flatten, and the top surface will travel vertically to its maximum or minimum height, depending on the direction of travel specified. To initiate neutral return, press and hold down the second button from the right on the second row (row 2, column 2). At the same time, press and hold down the UP or DOWN arrow button which corresponds to the desired direction of travel (Figure 3.27).

FIGURE 3-27

3.7.3 Lockout

When a function of the stretcher is Locked Out, a lock out indicator light located above that function will become illuminated (Figure 3.28). In order to initiate the Lock Out of a function, press and hold down the Lock button (row 2, column 1). At the same time, press the button corresponding to the function that needs to be locked out. In order to unlock a function, repeat until the lock out indicator light located above that function is no longer illuminated. No light above a function means that that function is Unlocked and ready to use.

FIGURE 3-28

FIGURE 3-29

FIGURE 3-30

FIGURE 3-31

FIGURE 3-32

Back Section Lockout

Press the Lock Out Button in conjunction with the first button on the top row (Figure 3.29) of the control panel.

Foot Section Lockout

Press the Lock Out Button in conjunction with the second button on the top row (Figure 3.30) of the control panel.

Height Lockout

Press the Lock Out Button in conjunction with the third button on the top row (Figure 3.31) of the control panel.

Trendelenburg Lockout

Press the Lock Out Button in conjunction with the fourth button on the top row (Figure 3.32) of the control panel.

3.8 PATIENT RAIL OPERATION

⚠ CAUTION:
ALWAYS BE SURE RAIL IS LOCKED INTO POSITION BEFORE LEAVING THE PATIENT UNATTENDED

3.8.1 Raising the Rail

grasp the rail top cap in the middle of the rail (Figure 3-33) and lift.

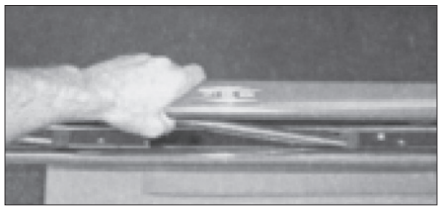


FIGURE 3-33

3.8.2 Half Height

grasp the rail, lift up on the red trigger under the stretcher top (Figure 3-34) while lowering the rail. when rail begins lowering, release trigger. lower rail until it locks into half-height position.

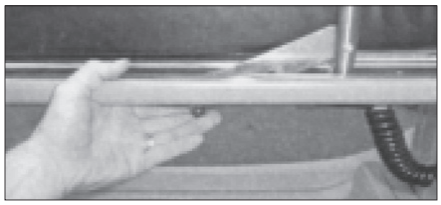


FIGURE 3-34

3.8.3 Lowering the Rail

grasp the rail, lift up on the red trigger under the top (Figure 3-34). while lowering the rail, hold up on the trigger until the rail is all the way down.

3.9 EYE HEADREST

3.9.1 Pre-Op/Post-Op Head extension – pushbar

to remove the head extension, rotate both knobs on the ends of the extension, counter-clockwise (Figure 3-35). with both knobs loosened, pull out on the extension. to install the extension, slide the ends of the tubes of the extension over the pins on the fowler (Figure 3-36). push the extension all the way onto the pins, then tighten both of the knobs (Figure 3-35) on the ends of the extension.

FIGURE 3-35

FIGURE 3-36

3.9.2 Adjusting the Eye Headrest

remove the head extension, see 'pre-op/ post-op extension' instructions. grasp the right ball style knob (Figure 3-36A). rotate the knob counterclockwise to articulate the head section upward (Figure 3-36B). rotate the knob clock-wise to articulate head section downward. Once the upward articulation has been set, grasp the left ball style knob (Figure 3-36C). rotate the knob counterclockwise to adjust the height of the head rest (Figure 3-38A).

FIGURE 3-37A

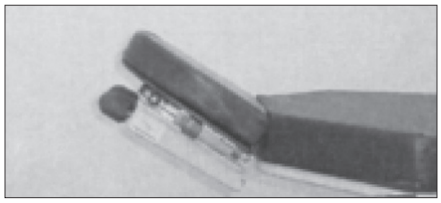


FIGURE 3-37B

IMPORTANT

After understanding which knob creates which action, quick and smooth adjustment can be achieved by rotating the knobs simultaneously (Figure 3-38B).

FIGURE 3-37C

3.9 EYE HEADREST

3.9.3 Mounting the Wrist Rest

Place the wrist rest into one of the three square sockets under the headrest (Figure 3-39). rotate the “t” knob on the back of the rest (Figure 3-40) clockwise.

NOTE: Be sure the wrist rest is secure before applying any pressure.

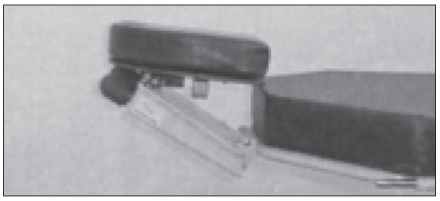


FIGURE 38A

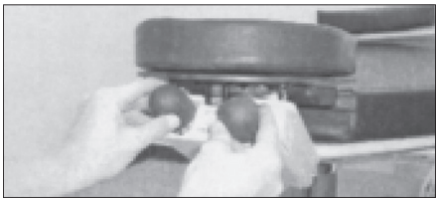


FIGURE 38B

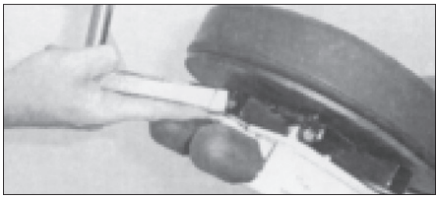


FIGURE 39

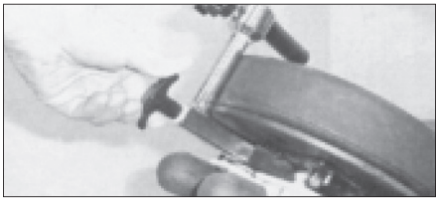


FIGURE 40

3.10 PERMANENTLY MOUNTED IV ROD OPERATION

⚠ WARNING - PERSONAL INJURY HAZARD:

Be sure I.V. rod is inserted completely into socket up to the arrow before applying any load.

3.10.1 Putting IV Rod in Up Position

Grasp I.V. rod and rotate upward until it stops. Push down on I.V. rod until it slides firmly into rod hinge socket (see Figure 3-32).

3.10.2 Extending IV Rod

Refer to Figure 3-32.

1. Rotate screw collar, or large screw collar, until loosened adequately to allow inner tube to easily slide up or down within outside tube.
2. Lift up on top of I.V. rod until desired height is achieved.
3. Tighten collar screw(s) until hand tight.

3.10.3 Retracting IV Rod

Refer to Figure 3-32.

1. Support extended portion of I.V. rod with one hand.
2. Rotate screw collar until loosened.
3. Lower I.V. rod until desired height is achieved, then retighten screw collar.
4. Repeat process with second screw collar as required.

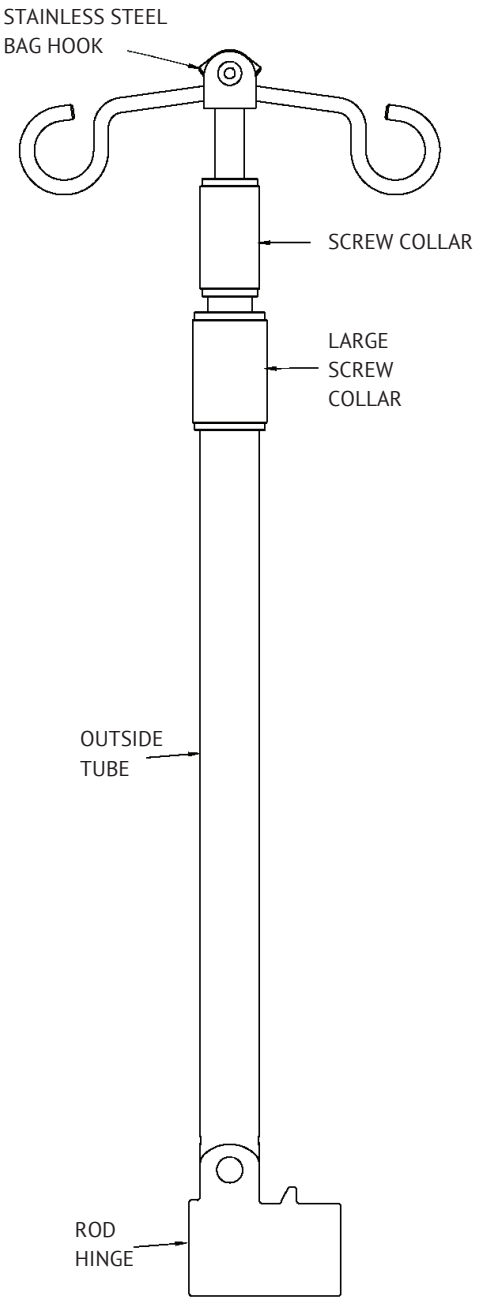


FIGURE 3-32

TROUBLE SHOOTING GUIDE 4

4.1 ELECTRIC POWERED STRETCHER

⚠ WARNING

To reduce the risk of electric shock, do not remove the cover. Unit is to be serviced by qualified service personnel (minimum 1 year medical equipment service and repair experience) only.

⚠ Always disconnect the power source whenever troubleshooting or servicing any electric powered stretcher.

If	Then
One motor or one column does not move but all others are operating correctly.	Step 1: Check all motor and column plug connections at the controller box. Step 2: If a column does not move: Check the connection at the column. Step 3: Perform the system reset procedure detailed in section 3.X.X If the component does not run: Contact GF Health Products, Inc. for further help and instruction.
Nothing moves	Step 1: Plug unit into a mains supply wall receptacle, observe the charge light on the nurse control: If the charge light is off: Replace the controller If the charge light is on: 1. Check the pendant control plug connection at the controller. 2. Ensure all lockout functions are deactivated. 3. Perform the system reset procedure detailed in section 3.X.X 4. Contact GF Health Products, Inc. for further help and instruction
The unit runs when plugged into wall receptacle, but does not run on battery backup	Step 1: Plug unit into a wall receptacle overnight. If the batteries do not hold a charge, replace the batteries in accordance with instructions in section 4.2.

Illustrated Part(s) breakdown is provided in Section 7 of this manual. GF Health Products, Inc. may be contacted at 678.291.3165 for additional information required to service or repair the equipment.

4.2 BATTERY REPLACEMENT INSTRUCTIONS

⚠ WARNING - SHOCK HAZARD

To reduce the risk of electric shock, do not remove the cover. Unit is to be serviced by qualified service personnel (minimum 1 year medical equipment service and repair experience) only.

⚠ WARNING - PERSONAL INJURY HAZARD

The batteries are wired in series, failure to connect the same way can cause batteries to explode

⚠ Always disconnect the power source whenever troubleshooting or servicing any electric powered chair.

The batteries are the only field serviceable components - do not attempt to repair the circuit boards.	
Battery replacement	Step 1: Remove the controller. Step 2: Remove the 4 screws from the right half, located on top of controller. Step 3: (After 4/11/00) replace (2) batteries with 'YUSHA' #NP 1.2-12, 12 volt, 1.2 Ah batteries. (Hausted P/N 075759 – 2 required, for CB-16 controllers). Step 4: Be sure battery connector in place on left side of batteries. Step 5: Replace cover.

Component	Cleaning Procedure	Schedule	Cleaning Agent *	Special Notes
Pads/Mattresses	Wipe with damp cloth to remove any foreign material	After each use	Routine hospital grade disinfectants, soap and water	Use only medium strength cleaners Do not steam clean or pressure wash
Stretcher	Wipe with damp cloth to remove any foreign material	After each use	Routine hospital grade disenfectants, soap and water	Lubricate pivot points after cleaning
Electrical components	Wipe external surfaces ONLY with damp cloth to remove any foreign material	After each use	Routine hospital grade disinfectants, soap and water	Use only medium strength cleaners
Mechanical stretcher components	Wipe with damp cloth to remove any foreign material	After each use	Routine hospital grade disinfectants, soap and water	Lubricate pivot points after cleaning
Mechanical accessories	Wipe with damp cloth to remove any foreign material	After each use	Routine hospital grade disinfectants, soap and water	Lubricate pivot points after cleaning

Procedure	Schedule	Material
Lubricate all moving and sliding parts and hinge points	Every 3 months	Lubricating oil, light-duty grease, wax stick lubricant or Never-Seez lubricant
⚠ NEVER LUBRICATE GAS SPRING, MOTOR OR MECH-LOCK SHAFTS ⚠		
Inspect all fasteners to ensure proper fit, position and tightness (including nuts, bolts, etc.)	Every 3 months	Proper size wrench and screwdriver
Inspect all surfaces and remove any sharp or burred areas; apply touch-up paint where required	Every 3 months	Metal file, proper color paint (specify color when ordering)

* **Disinfectants, vinyl products:** Phenolic disinfectants are the best choice for vinyl products; properly diluted quaternaries are also acceptable. Quaternary/Isopropyl disinfectants are not recommended for vinyl.
Disinfectants, urethane products: Quaternary disinfectants are recommended for urethane products. Quaternary/Isopropyl disinfectants are recommended for urethane. Phenolics should be avoided on urethane.
Disinfectants, all products: All fabrics may be cleaned with a 1:10 dilution of household bleaches containing 5.25% sodium hypochlorite as recommended by the Centers for Disease Control in Atlanta, Georgia. There is no harmful effect on the fabric. Disinfectants applied at full concentration or in highly concentrated solutions will decrease the useful life of fabric. Iodophor type disinfectants used on fabrics may result in staining.
Soils or Stains: Use neutral soap suds and lukewarm water. Do not use harsh cleansers, solvents or detergents.
Hard-To -Clean Spots: Use standard household/vinyl cleansers and a soft bristle brush on troublesome spots or stains. Pre-soak heavy, dried-on soil.
Laundering Vinyl-laminated or Rubber-coated fabric is not recommended. Laundering may substantially decrease the useful life of the fabric.
Laundering Polyurethane-coated fabric: Machine wash with detergent up to 120°F. Some surface wrinkling may occur; this wrinkling has no adverse effect on the fabric properties. Hang or tumble dry thoroughly at 140° F before storage.

⚠ CAUTION - POSSIBLE EQUIPMENT DAMAGE HAZARD: Steam cleaning and pressure washing of stretcher is not recommended and can void warranty.

NOTE: For more detailed information, please contact GF Health Products, Inc. at 678.291.3165.

NOTE: In addition to the User Preventive Maintenance, a more detailed Preventive Maintenance Program is also required to keep the equipment in good working order. This Preventive Maintenance Program is found on our website, at www.Hausted.com.

OPTIONAL ACCESSORIES 6

Universal Accessories	
000E17-00	I.V. rod 42" fixed height
000018-00	Telescoping i.V. rod 27" to 50" 2 section, with holder, stainless
SA4007-00	Surgical accessories rail - pair
SA0102-00	Malleable anesthesia screen
SA0635-00	Contoured head support pad
SA4005-00	Surgical armboard with 1" pad includes surgical support rails
000012-00	Restraint strap with buckle
APC012-00	Velcro restraint strap
SA4006-00	Oxyflex II with flexible support structure and adapter
SA0079-00	Oxyflex II with flexible support structure ad tuck plate
SA0080-00	Disposable Oxyflex II diffusion trays including 24" tube (Qty. 25)
SA4004-00	Foot switch – electric hi-lo (electrics only)
SP0400-00	Surgeons Chair
EYE Only	
00CR6B-00	Endboard with chart holder
00CR7B-00	Extension footboard combination with chart holder
068846-00	Extension footboard/monitor shelf with chart holder
SA0785-00	Dual lateral wrist rest
SA0786-00	Full U (over the brow) wrist rest

⚠ It is recommended that only accessories approved by GF Health Products, Inc. be used with this device. The use of accessories, transducers, and cables other than those specified by the manufacturer may result in increased emissions or decreased immunity of the Hausted equipment.

To order accessories, or for more detailed information on accessories, please contact GF Health Products, Inc. at 678.291.3207.

Significant assemblies and components of the Hausted® Surgi-Stretchers are illustrated and identified in this section. The part number, the description and the quantity required for each usage are given. Each indentation in the description represents the assembly level. The UNITS PER ASSEMBLY column is specific for the given assembly or subassembly level.

7.1 HOW TO USE THE ILLUSTRATED PARTS BREAKDOWN

1. Determine the function and application of the part required. Select the most appropriate title from the List of Illustrations in the Table of Contents. Note the illustration page number.
2. Turn to the page indicated and locate the desired part on the illustration.
3. From the illustration, obtain the item number assigned to the desired part. Refer to the accompanying tabular list (usually on the facing page) for the part number and description of the part.

NO INDENTATION –PART OF TOP ASSEMBLY

ONE INDENTATION – FIRST SUBASSEMBLY, PART OF ASSEMBLY UNDER WHICH IT IS INDENTED

Item No.	Part No.			SVC	Description
	P	146655	023		Arm and Lighthead Assembly
1	P	136807	181		CAP
2	P	136807	981		Funnel Cone Assembly
	P	136807	979		• CAP, Shield
	P	129362	378		• CLIP, Locking
	P	93911	304		• CONE, Cap
	P	136807	980		• FUNNEL, Cap
3	P	83628	001		SCREW, Button Head, #6-32 x 3/8 l
4	P	19684	061		LOCKWASHER, Helical, #6
5	P	90713	061		LOCKWASHER, Helical, #4
6	P	47760	091		SCREW, Button Head, #4-40 x

FIGURE 7-1. HYDRAULIC BASE ASSEMBLY – WITH/WITHOUT FIFTH WHEEL ASSEMBLY (PART 1 OF 2)

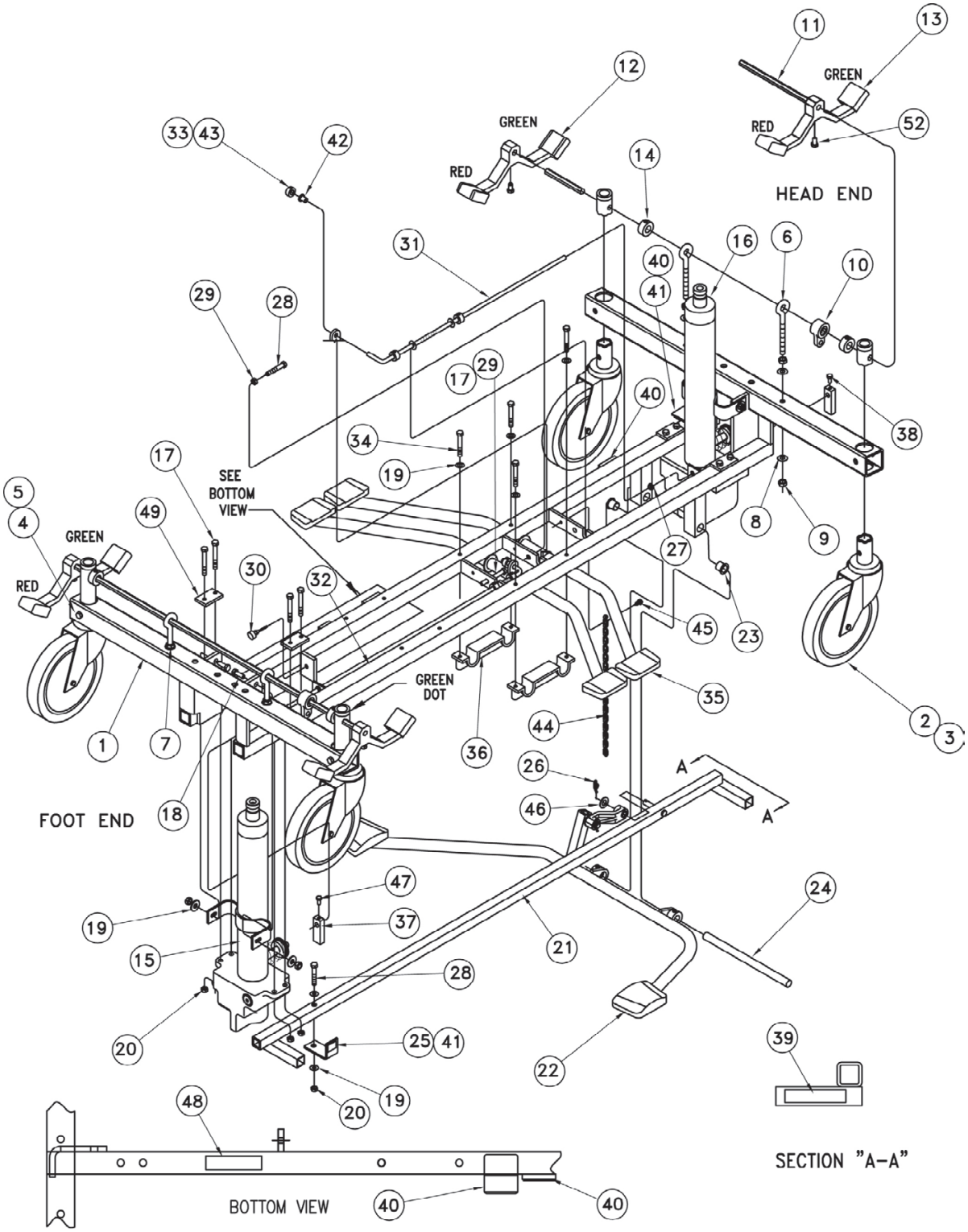


FIGURE 7-1. HYDRAULIC BASE ASSEMBLY – WITH/WITHOUT FIFTH WHEEL ASSEMBLY (PART 1 OF 2)

FIGURE 7-1. HYDRAULIC BASE ASSEMBLY – WITH/WITHOUT FIFTH WHEEL ASSEMBLY (PART 2 OF 2)

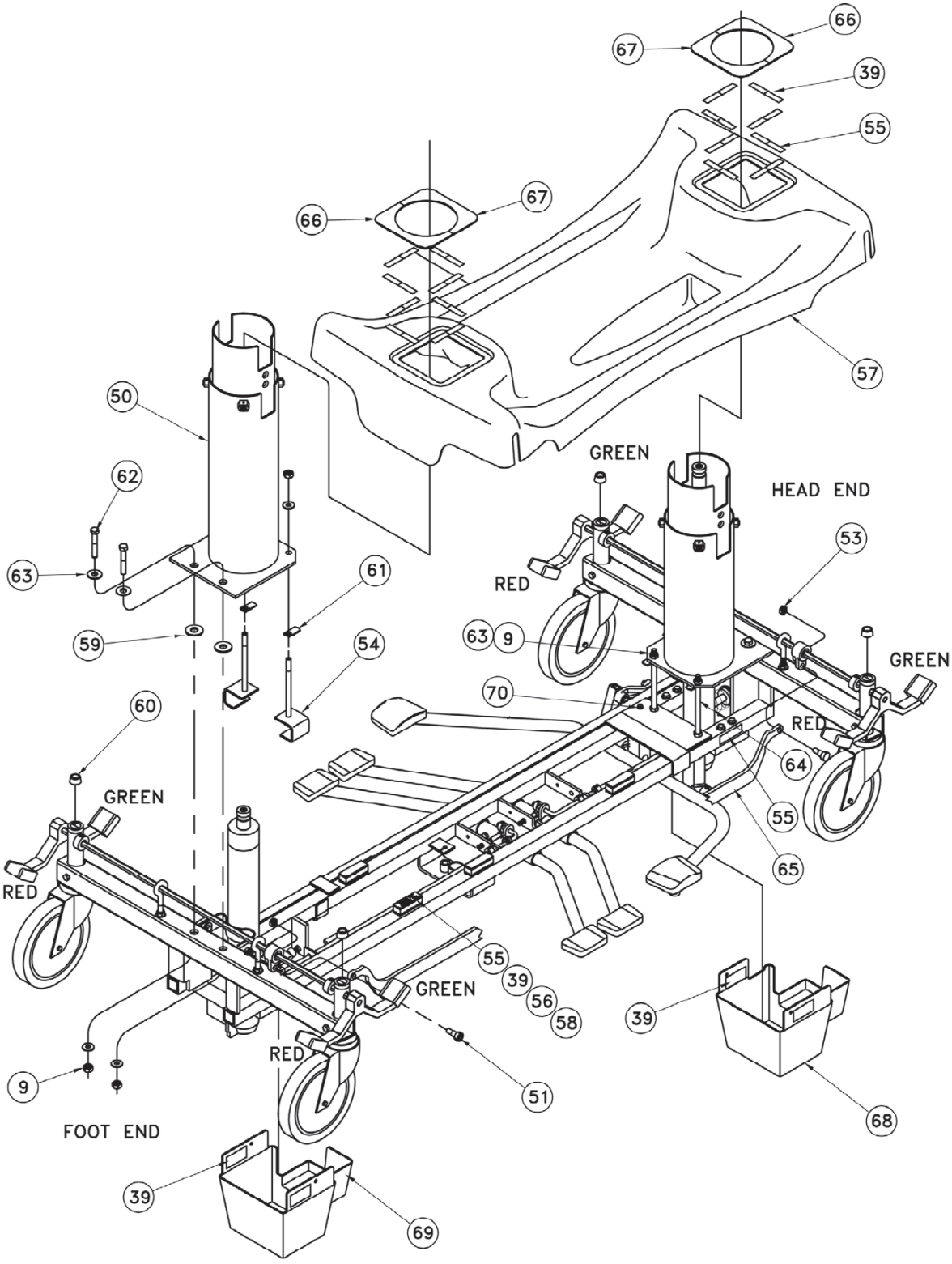


FIGURE 7-1. HYDRAULIC BASE ASSEMBLY – WITH/WITHOUT FIFTH WHEEL ASSEMBLY (PART 2 OF 2)

FIGURE 7-1. HYDRAULIC BASE ASSEMBLY – WITH/WITHOUT FIFTH WHEEL ASSEMBLY

Item No.	Part No.			SVC	Description	Units Per Assembly					
		075322	**PC**		**578 HYDRAULIC BASE ASSEMBLY - NO 5TH WHEEL**	**X**					
		075322			**578 HYDRAULIC BASE ASSEMBLY - WITH 5TH WHEEL**	**X**					
		075322			**PC 578 HYDRAULIC BASE ASSEMBLY - NO 5TH WHEEL**		**X**				
		075322	**578**		**HYDRAULIC BASE ASSEMBLY - WITH 5TH WHEEL**		**X**				
1	P	150830	492		ASSEMBLY, Base Frame	1	1				
2	P	056397	897		CASTER, Tente, Brake	3	4				
3	P	056397	896		CASTER, Tente, Steer	1					
4	P	081682	008		LOCKWASHER, 5/16”	8	8				
5	P	150830	554		SCREW, Hex Head Cap, M8 - 1.25” x 16”	8	8				
6		065041			BOLT, Eye, 5/16”-18	4	4				
7		031058			NUT, Free Thread, 5/16”-18	4	4				
8		031080			WASHER, Flat, 5/16”	8	8				
9		031057			NUT, Lock, 5/16”-18	4	4				
10		062684			LEVER, Cam	2	4				
11		068551			ROD, Horizon Hex Brake	2	2				
12		066507			ASSEMBLY, Left Brake Pedal	2	2				
		066543		•	PEDAL, Red Cap	4	4				
		066544		•	PEDAL, Green Cap	4	4				
		069459		•	RIVET, Large Head, Pop, 3/16”	8	8				
13		066508			ASSEMBLY, Right Brake Pedal .	2	2				
		066543		•	PEDAL, Red Cap	4	4				
		066544		•	PEDAL, Green Cap	4	4				
		069459		•	RIVET, Large Head, Pop, 3/16”	8	8				
14		068338			COLLAR, Worm	4	4				
15		075310			JACK, Hydraulic, Foot End	1	1				
16		075309			JACK, Hydraulic, Head End	1	1				
17		031321			SCREW, Hex Head Cap, 1/4-20x2.00” Long	9	9				
18		031337			SCREW, Hex Head Cap, 1/4-20x3/4” Long	4	4				
19		031076			WASHER, Flat, USS 1/4”	22	26				
20		031055			NUT, Lock, 1/4”-20	21	25				
21		075241			ASSEMBLY, Jack Link	1	1				
22	P	150830	599		ASSEMBLY, Pump Pedal	1	1				
		068343		•	PEDAL, Pad	2	2				
23		068126			NYLINER, 1/2”	2	2				
24		068379			BAR, Pump Pedal Hinge	1	1				
25		068355			GUIDE, Jack Link Vertical	1	1				
26		068417			CLIP, Rue, 5/16”	1	1				
27		068418			NYLINER, Type 7, 1/4”	2	2				
28		031006			SCREW, Hex Head Cap, 1/4-20 x 1-1/2” Long	2	6				
29		031054			NUT, Free Thread, 1/4”-20	2	2				

FIGURE 7-1. HYDRAULIC BASE ASSEMBLY – WITH/WITHOUT FIFTH WHEEL ASSEMBLY

Item No.	Part No.			S V C	Description	Units Per Assembly					
30		069492			BUMPER, Stop	1	1				
31	P	150830	746		LINK, Head End Release	1	1				
32	P	150830	747		LINK, Foot End Release	1	1				
33	P	150830	742		SCREW, Set, #10-32	2	2				
34		035122			SCREW, Hex Head Cap, 1/4”-20 x 1-5/8” Long	4	4				
35		P69484		*	RELEASE, Pedal, Sub Assembly	1	1				
		061164		•	PEDAL, Pad, Release	2	2				
36		069481			CASTING, Bracket, Axle	2	2				
37		068377			PLATE, Push	2	2				
38		068890			SCREW, Hex Head Cap, #10-32 x 1/2” Long	1	1				
39		068512			PILE, Velcro, 2.0” x 5/8”	1	1				
40		068380			TAPE, Teflon, 3/4” x 1-1/2”	4	4				
41		068381			TAPE, Teflon, 1/2” x 3/4”	2	2				
42		068530			WASHER, Nylon Shoulder	2	2				
43	P	150830	741		COLLAR, Stop, 1/4”	2	2				
44		062378			CHAIN, Anti-Static	1	1				
45	P	048064	045		SCREW, Self Tapping, #10-24 x 1/2” Long	1	1				
46		031100			WASHER, Nylon 1/4”	1	1				
47		052041			SCREW, Socket Set,#10-32 x 1/4”	1	1				
48		075249			TAPE, Teflon, 3/4” x 2-1/2”	1	1				
49		069478			PLATE, Jack Mounting Reinforcement	4	4				
50		P75323		*	ASSEMBLY, Column	2	2				
		031102		•	SCREW, Set	8	8				
		051310		•	GUIDE, Column, Nylon	8	8				
51		065807			BOLT, Shoulder, 3/8” x 5/16”-18	2	2				
52		031101			SCREW, Hex Head Cap with Mylar Patch	4	4				
53	P	150830	756		NUT, Lock, 5/16”-18	2	6				
54		063391			SUPPORT, Foot End Column	2	2				
55		068513			HOOK, Velcro, 2”x 5/8”	16	16				
56		068376			SPACER, Cover	4	4				
57		075317			COLUMN, Horizon Base Cover Round	1	1				
58		068475			TAPE, Double Sided, 2” x 1/2”	4	4				
59		031359			WASHER, Flat 3/8”	4	4				
60		031156			BUMPER	4	4				
61		031070			NUT, Weld, 5/17”-18	4	4				
62	P	150824	269		SCREW, Hex Head Cap, 5/16”-18 x 2-1/4” Long	4	4				
63		031080			WASHER, Flat 5/16”	12	12				
64		075320			SUPPORT, Foot End Column	1	1				
65	P	056397	930		LINKAGE, Brake/Steer	1	1				
66		075315			SHROUD, Column, #1	2	2				

FIGURE 7-1. HYDRAULIC BASE ASSEMBLY – WITH/WITHOUT FIFTH WHEEL ASSEMBLY

Item No.	Part No.	SVC	Description	Units Per Assembly					
67	075316		SHROUD, Column, #2	2	2				
68	069280		COVER, Horizon, Bottom, Foot End	1	1				
69	069281		COVER, Horizon, Head, Foot End	1	1				
70	065387		SCREW, Self Tapping, 1/4-20 x 3/4" Long	1	1				

NOTE: The "P" prefix on the part numbers marked with an *, designate part numbers for the powder coated units. For chrome/stainless units the "P" prefix should be replaced with a "0" prefix.

Figure 7-2.5E8/5D8 ELECTRIC BASE ASSEMBLY(Prior to July 1, 2013)

IMPORTANT NOTE:

To reduce the risk of electric shock, do not remove the cover.

Unit is to be serviced by qualified personnel only.

For detailed plug locations, see Figures 7-9 & 7-7.

For detailed label locations, see Figures 7-11.

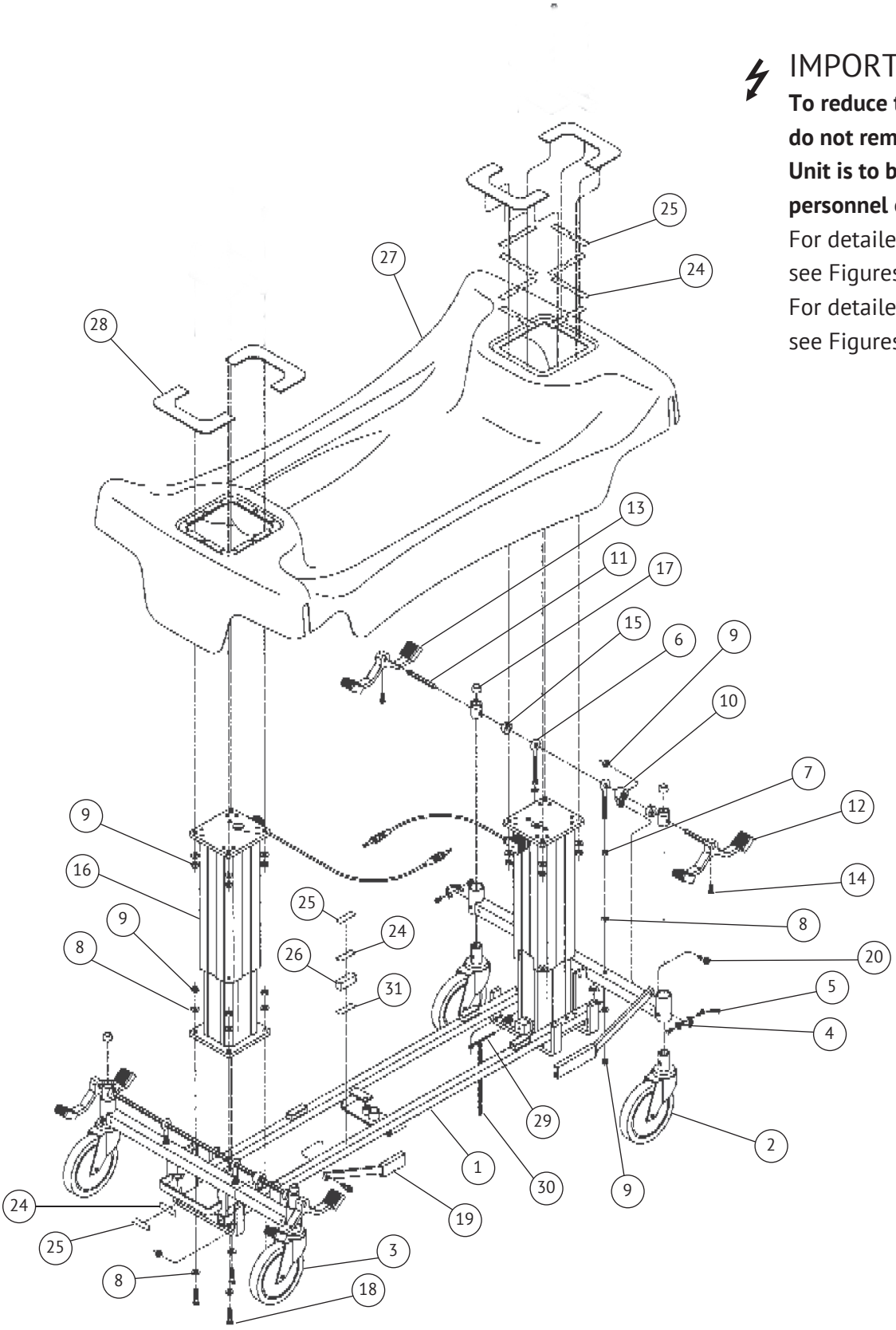
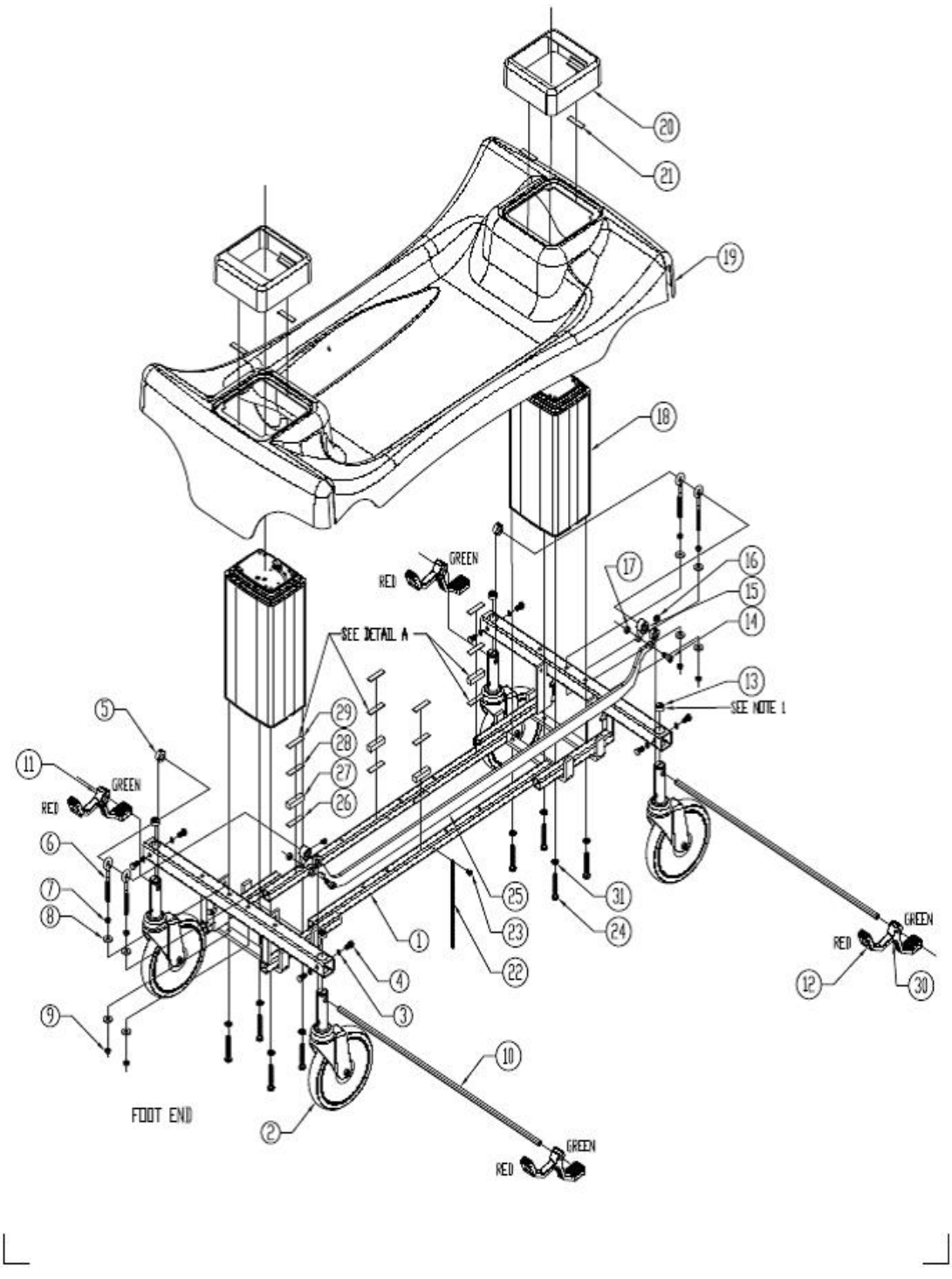


FIGURE 7-2. 5E8/5D8 ELECTRIC BASE ASSEMBLY

FIGURE 7-2. 5E8/5D8 ELECTRIC BASE ASSEMBLY

Item No.	Part No.	SVC	Description	Units Per Assembly					
1	075457		ASSEMBLY, Base Frame	1					
2	062672		CASTER, Tente, Brake	3					
3	062671		CASTER, Tente, Swivel Lock	1					
4	062672		PLATE, Caster Bolt Lock	4					
5	062685		SCREW, Hex Head Cap, M8 x 1.25 x 12.00” Long	8					
6	065041		BOLT, Eye, 5/16-18	4					
7	031058		NUT, Free Thread, 5/16-18	4					
8	031080		WASHER, Flat, 5/16”	28					
9	031057		NUT, Lock, 5/16-18	8					
10	062684		LEVER, Cam	2					
11	068551		ROD, Horizon Hex Brake	2					
12	066507		ASSEMBLY, Left Brake Pedal	2					
13	066508		ASSEMBLY, Right Brake Pedal	2					
14	031101		SCREW, Hex Head Cap, 1/4-20 x 3/4” Long	4					
15	011422		COLLAR, Worm	6					
16	068983		COLUMN	2					
17	031156		BUMPER	4					
18	061350		SCREW, Hex Head Cap, 5/6 -18 x 1.50” Long	8					
19	068329		LINK, Brake Rod	1					
20	065807		BOLT, Shoulder, 3/8” x 3/8”	2					
24	068513		HOOK, Velcro, 2.0” x 5/8”	22					
25	068512		PILE, Velcro, 2.0” x 5/8”	22					
26	068376		SPACER, Cover	4					
27	075006		COVER, Top, Electric Base	1					
28	075006		SHROUD, Cover	4					
29	000894		TIE, Cable	1					
30	062378		CHAIN, Anti-Static	1					
31	068475		TAPE, Double Sided, 2.0” x 1/2”	4					

FIGURE 7-3. 5E8/5D8 ELECTRIC BASE ASSEMBLY (After July 1, 2013)



IMPORTANT NOTE:

To reduce the risk of electric shock, do not remove the cover.
Unit is to be serviced by qualified personnel only.

For detailed plug locations, see figures 7-13 & 7-10.
For detailed label locations, see figures 7-15

FIGURE 7-3. 5E8/5D8 ELECTRIC BASE ASSEMBLY

FIGURE 7-3. 5E8/5D8 ELECTRIC BASE ASSEMBLY (After July 1, 2013)

Item No.	Part No.	SVC	Description	Units Per Ass'y		
1	080435		Base Frame Assembly Weldment	1		
2	056397897		Tente Caster - Brake	4		
3	081682008		5/16 Lock Washer	8		
4	150830554		M8 X 1.25 X 16mm LG. Hex HD Cap Screw	8		
5	068338		Worm Collar	4		
6	065041		5/16 - 18 Eye Bolt	4		
7	031058		5/16 Free Thread Nut	4		
8	031080		5/16 Flat Washer	8		
9	031057		5/16 - 18 Lock Nut	4		
10	068551		Hex Brake Rod	2		
11	066507		Left Brake Pedal Assembly	2		
12	066508		Right Brake Pedal Asembly	2		
13	031156		Grommet	4		
14	065807		3/8 x 3/8 Shoulder Bolt	2		
15	062684		Cam Lever	2		
16	080086		M6 - 1 X 10 Hex Cap Screw GR 8.8 Zinc	2		
17	150830756		5/6 - 18 Lock Nut	2		
18	080452		Electric Stretcher Column BL1	2		
19	080445		Base Cover, Shroud	1		
20	080542		Column Trim, Sub-Assembly	1		
21	068512		Velcro Loop 2" X 1/2" Black	4		
22	062378		Anti-Static Chain	1		
23	048064045		#10 - 16 X .375 Type "B" Self-Tapping Screw	1		
24	080469		BL1 Stretcher Column Mounting Screw	8		
25	056397930		Brake Rod	1		
26	068475		1/2 X 2.0 Double Sided Tape	4		
27	068376		Cover Spacer	4		
28	068513		Velcro Hook 2" X 1/2" Black	4		
29	068512		Velcro Loop 2" X 1/2" Black	4		
30	031101		1/4 - 20 X 3/4 LG HHCS	REF.		
31	030923		Lock Wahser 3/8" I.D.	8		

FIGURE 7-4. 578 TOP ASSEMBLY (PART 1 OF 2)

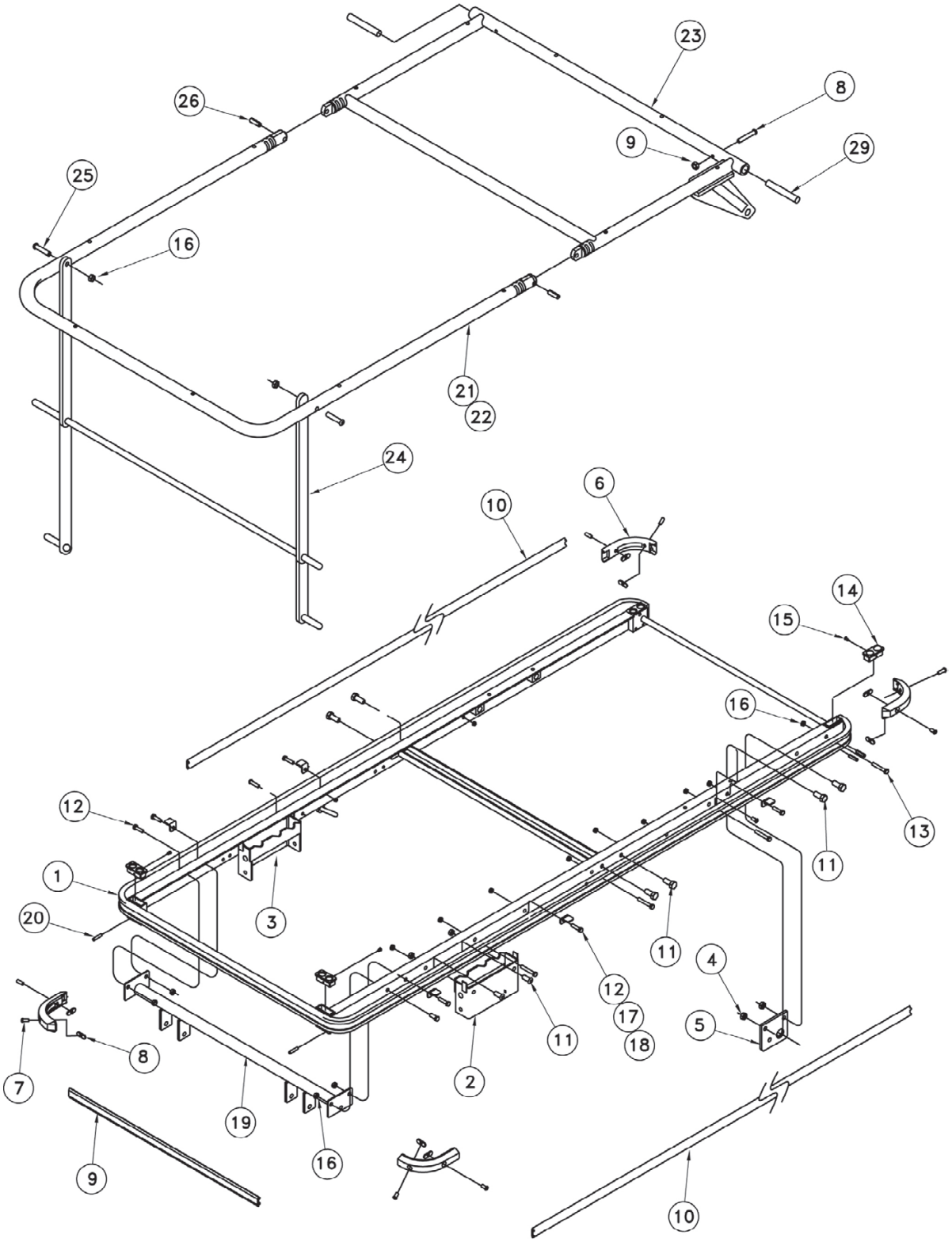


FIGURE 7-4. 578 TOP ASSEMBLY (PART 1 OF 2)

FIGURE 7-4. 578 TOP ASSEMBLY (PART 2 OF 2)

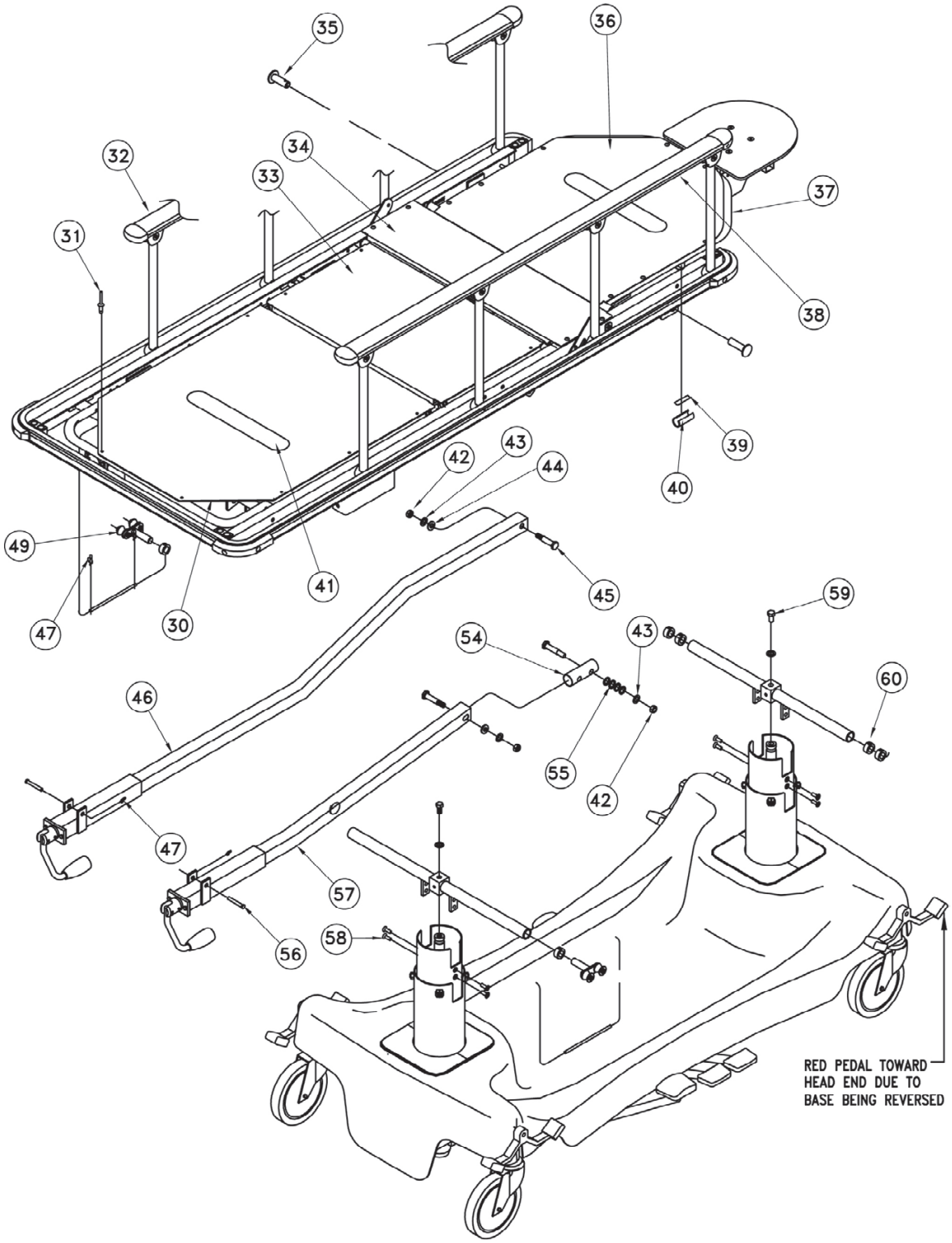


FIGURE 7-4. 578 TOP ASSEMBLY (PART 2 OF 2)

FIGURE 7-4. 578 TOP ASSEMBLY

Item No.	Part No.			SVC	Description	Units Per Assembly					
					578 TOP ASSEMBLY	**X**					
1	P	150830	648		WELDMENT, Top	1					
2		075330			ASSEMBLY, Roller Bracket, Right	1					
3		075331			ASSEMBLY, Roller Bracket, Left	1					
4		031057			NUT, Lock, 5/16”-18	12					
5		068481			PLATE, Foot End Support	2					
6		067958			BUMPER, Corner	4					
7		061195			SCREW, Button Head Cap, 1/4-20 x 5/8” Long	8					
8		031455			NUT, Channel, 1/4”-20	8					
9		068154			EXTRUSION, End Bumper, Cyan	1					
10		067959			EXTRUSION, Side Bumper, Cyan	2					
11		031010			SCREW, Hex Head Socket, 5/16-18 x 3/4” Long	12					
12		068786			SCREW, Hex Head Socket, 1/4-20 x 3/4” Long	8					
13		035122			SCREW, Hex Head Cap, 1/4-20 x 1-5/8” Long	8					
14		075226			CAP, I.V. Well Top	4					
15		075229			CUP, Nylon Arrow, 1/8”	4					
16		031055			NUT, Lock, 1/4”-20	16					
17		150830	298		CAP, Vinyl	6					
18		056397	816		STOP, Angle, Rail	6					
19		075328			ASSEMBLY, Crank Support Bar	1					
20		031118			PIN, Spring, 3/16” x 1	6					
21	P	150830	542		ASSEMBLY, Kneeflex	1					
22		P67647		*	• ASSEMBLY, Foot Section	1					
23		P67648		*	• ASSEMBLY, Knee Section	1					
24		075333			• WELDMENT, Foot Frame Support	1					
25		062128			• SCREW, Button Head Cap, 1/4-20 x 1-1/4” Long	2					
26		031312			• PIN, Spring, 1/4 x 3/4	2					
27		075502			• SCREW, Phillips Head, #10-24 x 1-1/8” Long	2					
28		031421			• NUT, Lock, #10-24	1					
29		062209			SHAFT, Crossbar	4					
30		P67650			COVER, Foot Section	1					
31		000794			RIVET	26					
32		075067			RETRACTO RAIL, Left	1					
33		P33013		*	COVER, Knee Section	1					
34	P	150830	645		COVER, Seat Pan	1					
35		068493			PLUG, Retaining	2					
36		P66257			COVER, Fowler	1					
37		075101			ASSEMBLY, Fowler	1					
38		075066			RETRACTO RAIL, Right	1					
39		000990			TAPE, Double Face .5 x 1.25” Long	2					

FIGURE 7-4. 578 TOP ASSEMBLY

Item No.	Part No.			SVC	Description	Units Per Assembly					
40		075357			STOP, Fowler	2					
41		031212			HOOK, Velcro	2					
42		030918			NUT, Hex, 3/8”-16	4					
43		030923			WASHER, Split Lock, 3/8”	3					
44		031080			WASHER, Flat, 5/16”	2					
45		030919			BOLT, Shoulder	3					
46	P	141210	467		ASSEMBLY, Crank, Fowler	1					
47		065258			COTTER PIN, Locking	4					
48	P	150830	358		PIN, Clevis, 3/8 x 6-5/8”	2					
49		068466			ASSEMBLY, Roller	2					
50		031057		*	NUT, Lock, 5/16-18 (Not Shown)	2					
51		061157		*	BOLT, Shoulder, 3/8” x 1” Long (Not Shown)	4					
52		068465		*	ROLLER (Not Shown)	4					
53		068467		*	BRACKET, Roller Pivot (Not Shown)	2					
54		075329			TUBING, Crank Extension	1					
55		055119			WASHER, Nylon, 1/2 ID x 1 OD x .060	4					
56		065257			PIN, Clevis, Crank	2					
57		068724			ASSEMBLY, Crank, Foot	1					
58		031417			SCREW, Flat Head, 1/4-20 x .750” Long	8					
59		068519			SCREW, Hex Head Cap, 3/8-24	2					
60		068464			COLLAR, Shaft	6					
61		075112			PAD, 3” , 578 (Not Shown)	1					

NOTE: The “P” prefix on the part numbers marked with an *, designate part numbers for the powder coated units. For chrome/stainless units the “P” prefix should be replaced with a “0” prefix.

FIGURE 7-5. 5E8/5D8 & 5E7/5D7 TOP ASSEMBLY (PART 1 OF 3) (Prior To July 1, 2013)

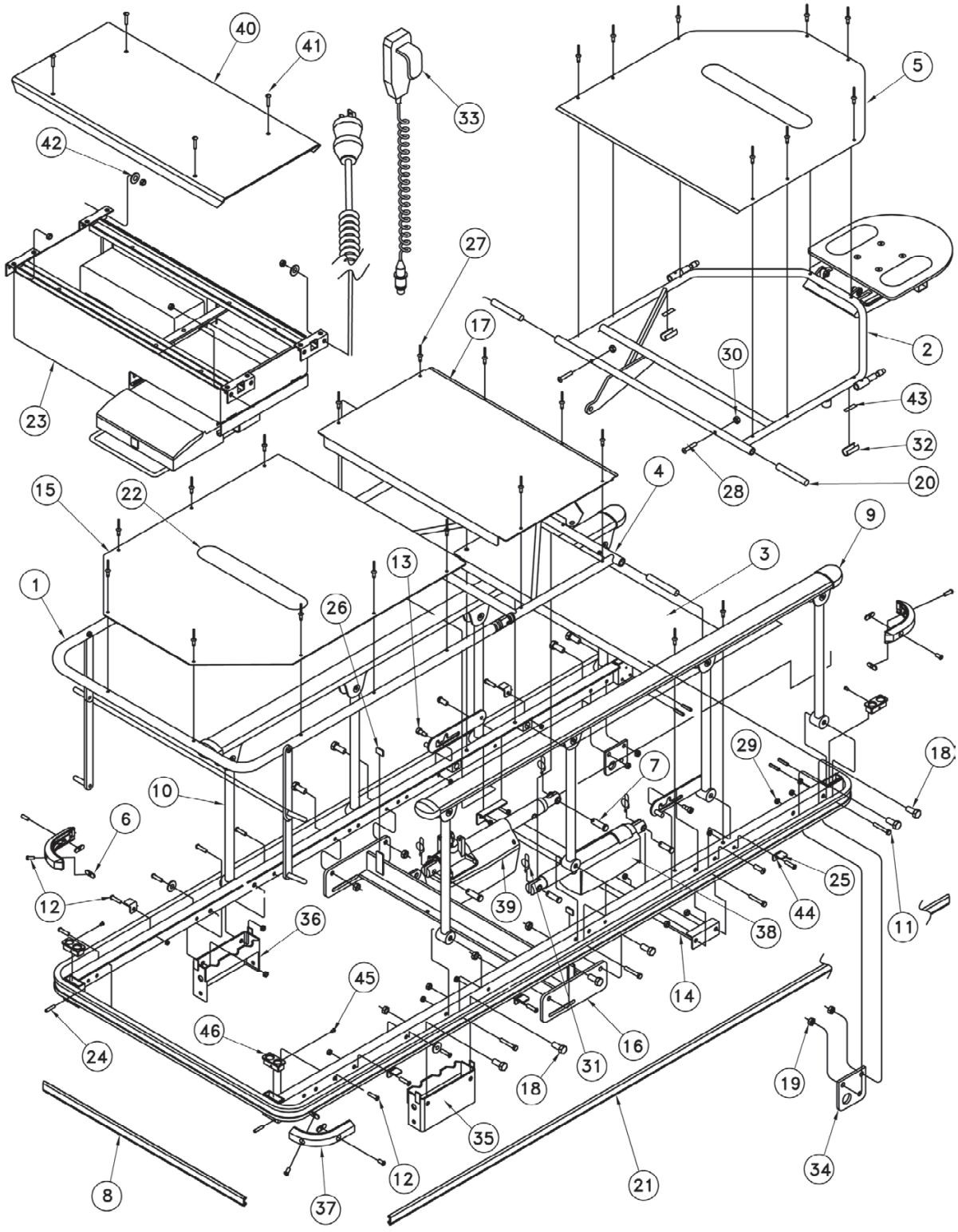


FIGURE 7-5. 5E8/5D8 & 5E7/5D& TOP ASSEMBLY (PART 1 OF 3)

FIGURE 7-5. 5E8/5D8 & 5E7/5D7 TOP ASSEMBLY (PART 2 OF 3)
(Prior To July 1, 2013)

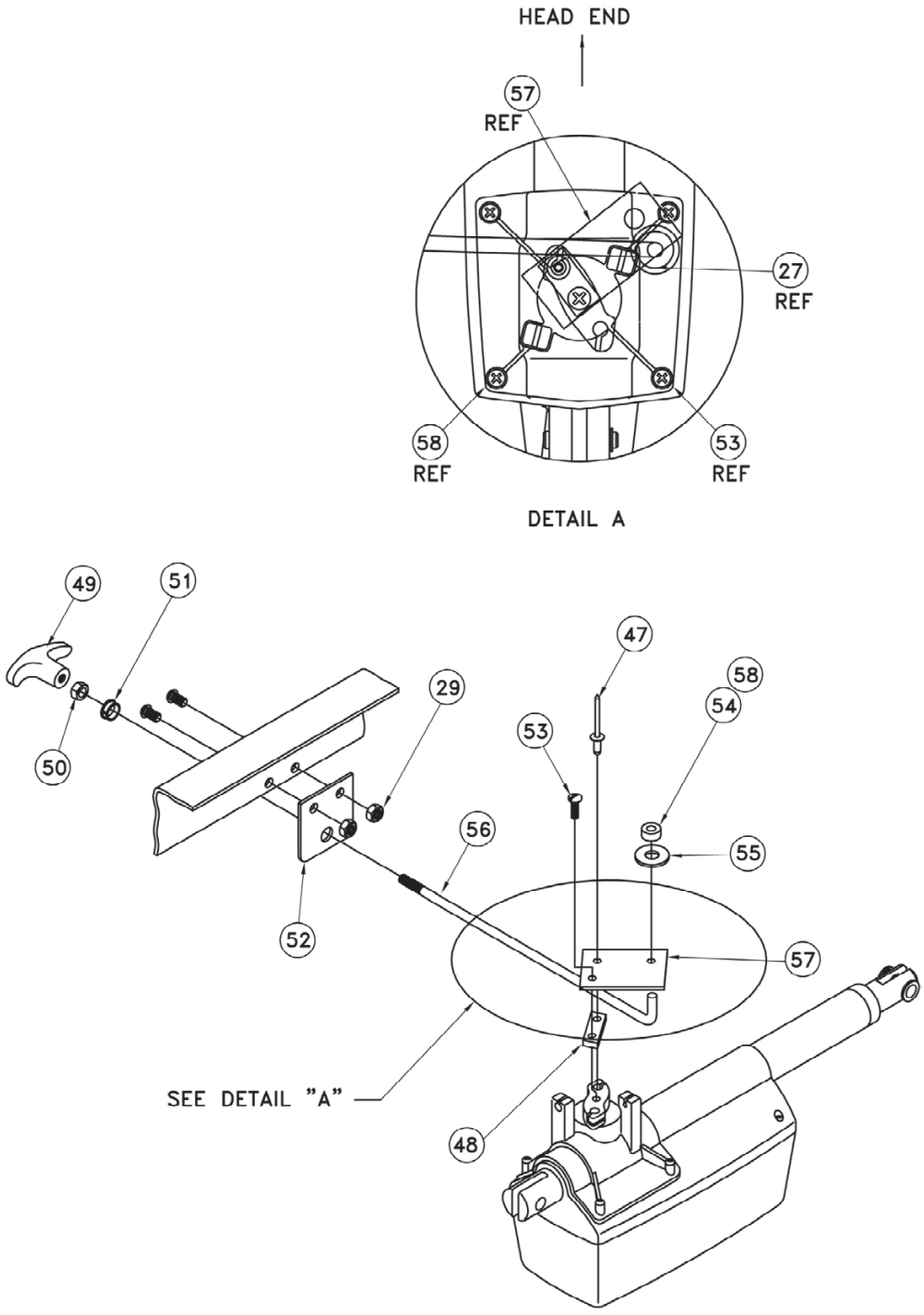


FIGURE 7-5. 5E8/5D8 & 5E7/5D& TOP ASSEMBLY (PART 2 OF 3)

FIGURE 7-5. 5E8/5D8 & 5E7/5D7 TOP ASSEMBLY (PART 3 OF 3)
(Prior To July 1, 2013)

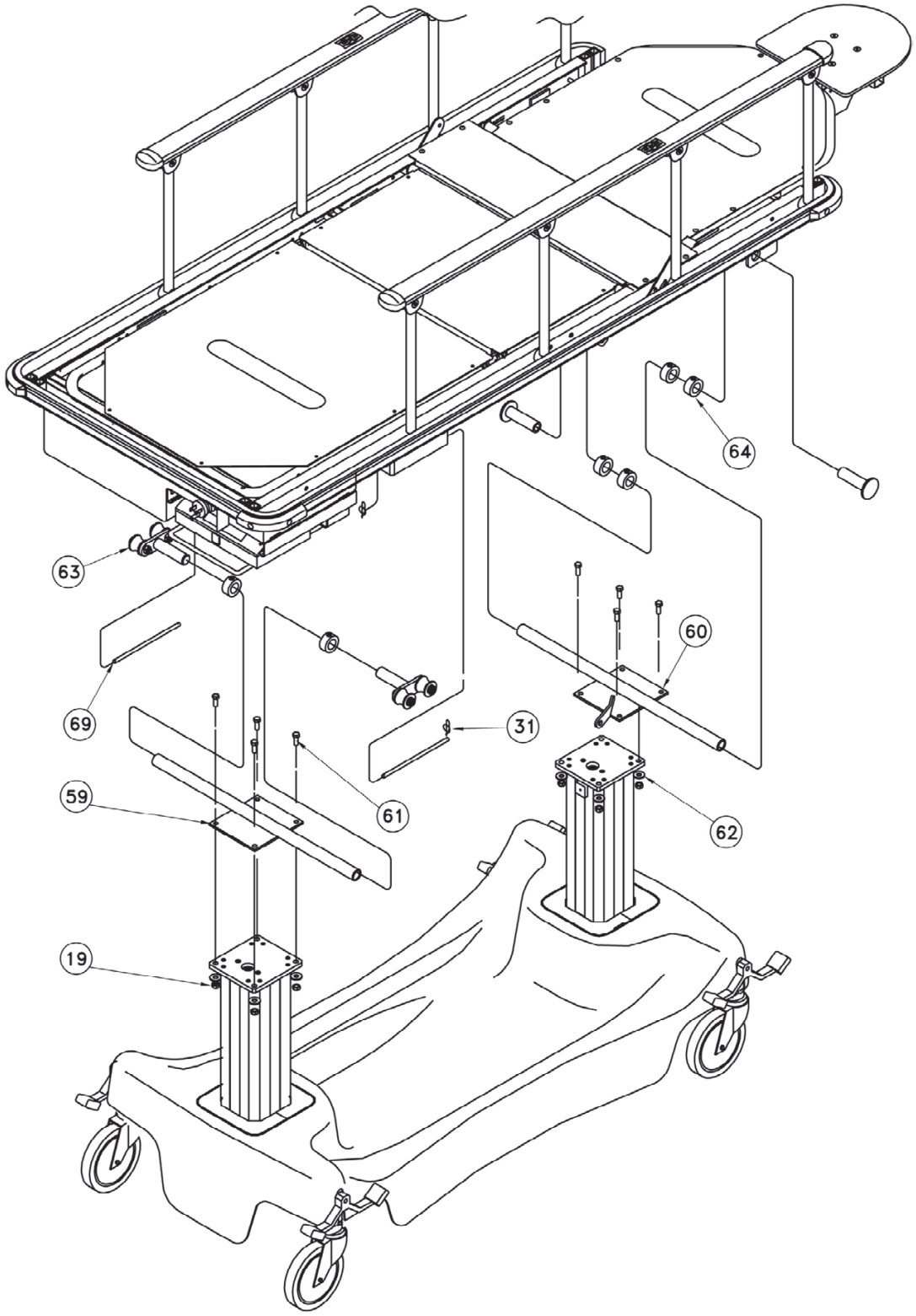


FIGURE 7-5. 5E8/5D8 & 5E7/5D& TOP ASSEMBLY (PART 3 OF 3)

FIGURE 7-5. 5E8/5D8 & 5E7/5D7 TOP ASSEMBLY (Prior to July 1, 2013)

Item No.	Part No.			SVC	Description	Units Per Assembly					
					5E8/5E7 TOP ASSEMBLY	**X**					
					5D8/5D7 TOP ASSEMBLY		**X**				
1	P	150830	648		WELDMENT, Top	1	1				
2		P75071			ASSEMBLY, Fowler, Electric	1	1				
3	P	150830	645		PAN, Seat	1	1				
4	P	150830	541		ASSEMBLY, Knee Section	1	1				
5		P66257			COVER, Fowler	1	1				
6		031455			NUT, Lock, 1/4-20	8	8				
7		075627			PIN, Gas Spring Hinge	4	4				
8		068154			EXTRUSION, End Bumper, Grey	1	1				
9		075066			RETRACTO RAIL, Right	1	1				
10		075067			RETRACTO RAIL, Left	1	1				
11		035122			SCREW, Hex Head Cap, 1/4-20 x 1-5/8" Long	8	8				
12		061195			SCREW, Button Head Cap, 1/4-20 x 5/8" Long	22	22				
13		035114			BOLT, Shoulder, 5/16" x 3/4" Long	2	2				
14		062358			ASSEMBLY, Accessory Support Channel	1	1				
15		P67650			COVER, Foot Section	1	1				
16		P75098			* ANCHOR, Actuator	1	1				
17		P33013			* COVER, Knee Section	1	1				
18		031010			SCREW, Hex Head Socket, 5/16-18 x 3/4" Long.	12	12				
19		031057			NUT, Lock, 5/16-18	12	12				
20		062209			SHAFT, Crossbar	4	4				
21		067959			EXTRUSION, Side Bumper, Grey	2	2				
22		031212			HOOK, Velcro	2	2				
23		076138			ASSEMBLY, Controller, 110V	1					
		076140			ASSEMBLY, Controller, 230V		1				
24		031118			PIN, Spring, 3/16 x 1"	6	6				
25	P	150830	298		CAP, Vinyl	6	6				
26		065227			CLOSURE, VINYL	2	2				
27		000794			RIVET, BSP 64	27	27				
28		075502			SCREW, Phillips Head, #10-24 x 1-1/8" Long	3	3				
29		031055			NUT, Lock, 1/4-20	22	22				
30		031421			NUT, Lock, #10-24	3	3				
31		065258			COTTER PIN, Locking	4	4				
32		075357			STOP, Fowler	2	2				
33		075717			PENDENT, Electric, CB14	1	1				
34		068481			PLATE, Foot End Support	2	2				
35		075330			ASSEMBLY, Roller Bracket, Right	1	1				
36		075331			ASSEMBLY, Roller Bracket, Left	1	1				
37		067958			BUMPER, Corner	4	4				

FIGURE 7-6. 5E8/5D8 & 5E7/5D7 TOP ASSEMBLY (Prior to July 1, 2013)

Item No.	Part No.			SVC	Description	Units Per Assembly					
38		068986			ACTUATOR, Foot Section	1	1				
39		068985			ACTUATOR, Fowler Rest	1	1				
40		075402			COVER, Controller Top	1	1				
41		031500			SCREW, Truss Head Machine, 10-24 x 1" Long	4	4				
42		031090			WASHER, Lock, Internal	4	4				
43		000990			TAPE, Double Face .5 x 1.25" Long	2	2				
44	P	056397	816		STOP, Angle, Rail	6	6				
45		075229			CUP, Nylon Arrow, 1/8"	4	4				
46		075226			CAP, I.V. Well Top	4	4				
47		031186			RIVET, Grip	1	1				
48		075441			SPACER	1	1				
49		055215			KNOB, Pull	1	1				
50		031054			NUT, 1/4"-20	1	1				
51		061336			NYLINER, Flange	1	1				
52		P75486			PLATE, Support	1	1				
53		075444			SCREW, Pan Head M5 x 20mm Slotted	1	1				
54	P	150830	741		COLLAR, Stop, 1/4" ID x 1/2" OD	1	1				
55		031100			WASHER, Nylon 5/16"	1	1				
56		075487			ROD	1	1				
57		075488			PLATE, Actuator	1	1				
58	P	150830	742		SCREW, Set, #10-32	1	1				
59		075462			WELDMENT, Crosstube, Foot	1	1				
60		075459			WELDMENT, Crosstube, Head	1	1				
61		031033			SCREW, Hex Head Cap, 5/16-18 x 1" Long	8	8				
62		031081			WASHER, Flat, 5/16"	8	8				
63		068466			ASSEMBLY, Roller	63	63				
64		031057			• NUT, Lock, 5/16"-18 (Not Shown)	2	2				
65		061157			• BOLT, Shoulder, 3/8" x 1" Long (Not Shown)	4	4				
66		068465			• ROLLER (Not Shown)	4	4				
67		068467			• BRACKET, Roller Pivot (Not Shown)	2	2				
68		068464			COLLAR, 3/4" Shaft	6	6				
69	P	150830	358		PIN, Clevis, 3/8"	2	2				
70		062073			PLUG, RETAINING, TOP	2	2				

NOTE: The "P" prefix on the part numbers marked with an *, designate part numbers for the powder coated units. For chrome/stainless units the "P" prefix should be replaced with a "0" prefix.

FIGURE 7-6. 5E8/5D8 & 5E7/5D7 TOP ASSEMBLY (PART 1 OF 3)
(After July 1, 2013)

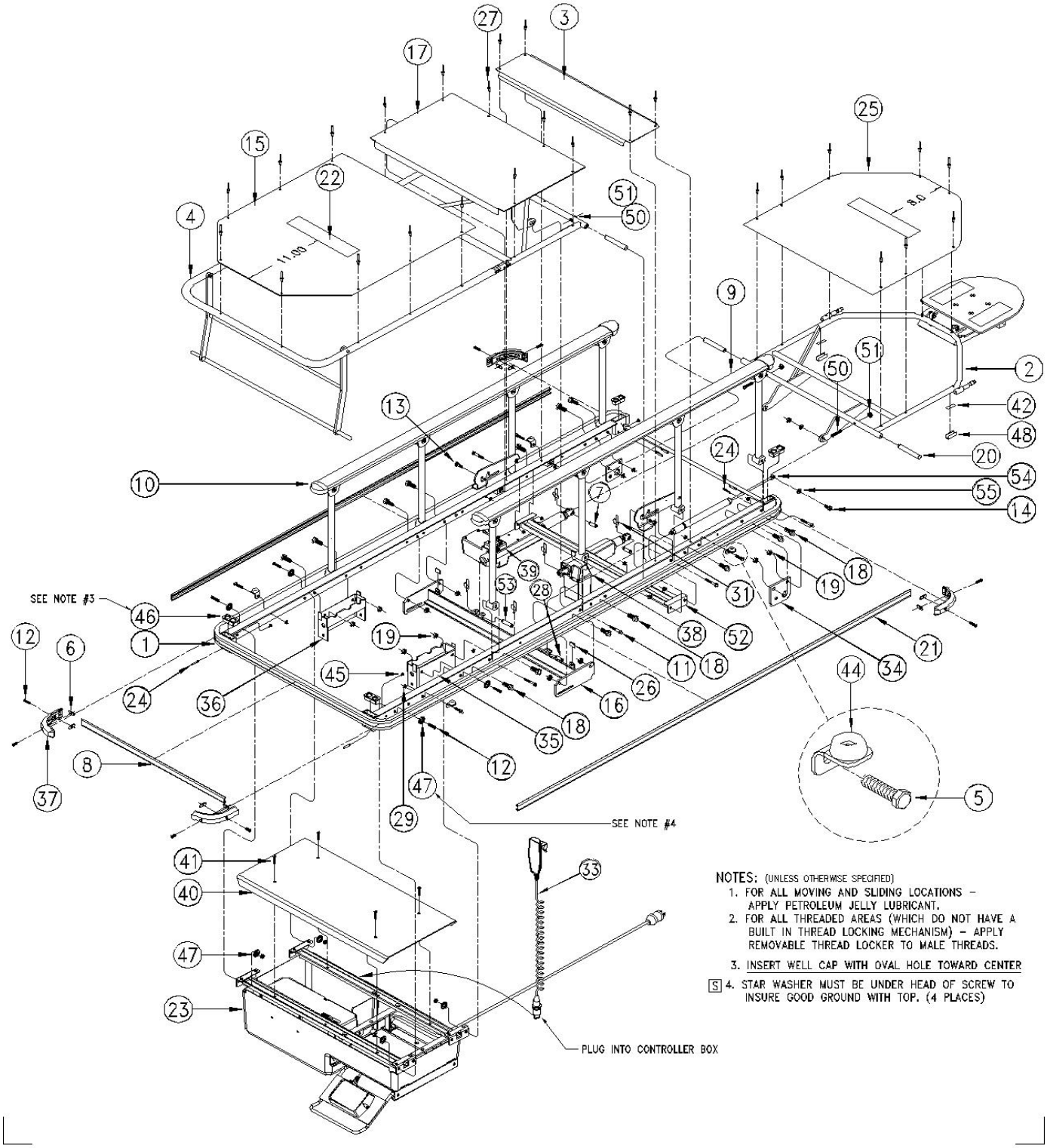

SEE NOTE #3
SEE NOTE #4
PLUG INTO CONTROLLER BOX
NOTES: (UNLESS OTHERWISE SPECIFIED)
1. FOR ALL MOVING AND SLIDING LOCATIONS – APPLY PETROLEUM JELLY LUBRICANT.
2. FOR ALL THREADED AREAS (WHICH DO NOT HAVE A BUILT IN THREAD LOCKING MECHANISM) – APPLY REMOVABLE THREAD LOCKER TO MALE THREADS.
3. INSERT WELL CAP WITH OVAL HOLE TOWARD CENTER
S 4. STAR WASHER MUST BE UNDER HEAD OF SCREW TO INSURE GOOD GROUND WITH TOP. (4 PLACES)

FIGURE 7-6. 5E8/5D8 & 5E7/5D& TOP ASSEMBLY (PART 1 OF 3)

FIGURE 7-6. 5E8/5D8 & 5E7/5D7 TOP ASSEMBLY (PART 2 OF 3)
(After July 1, 2013)

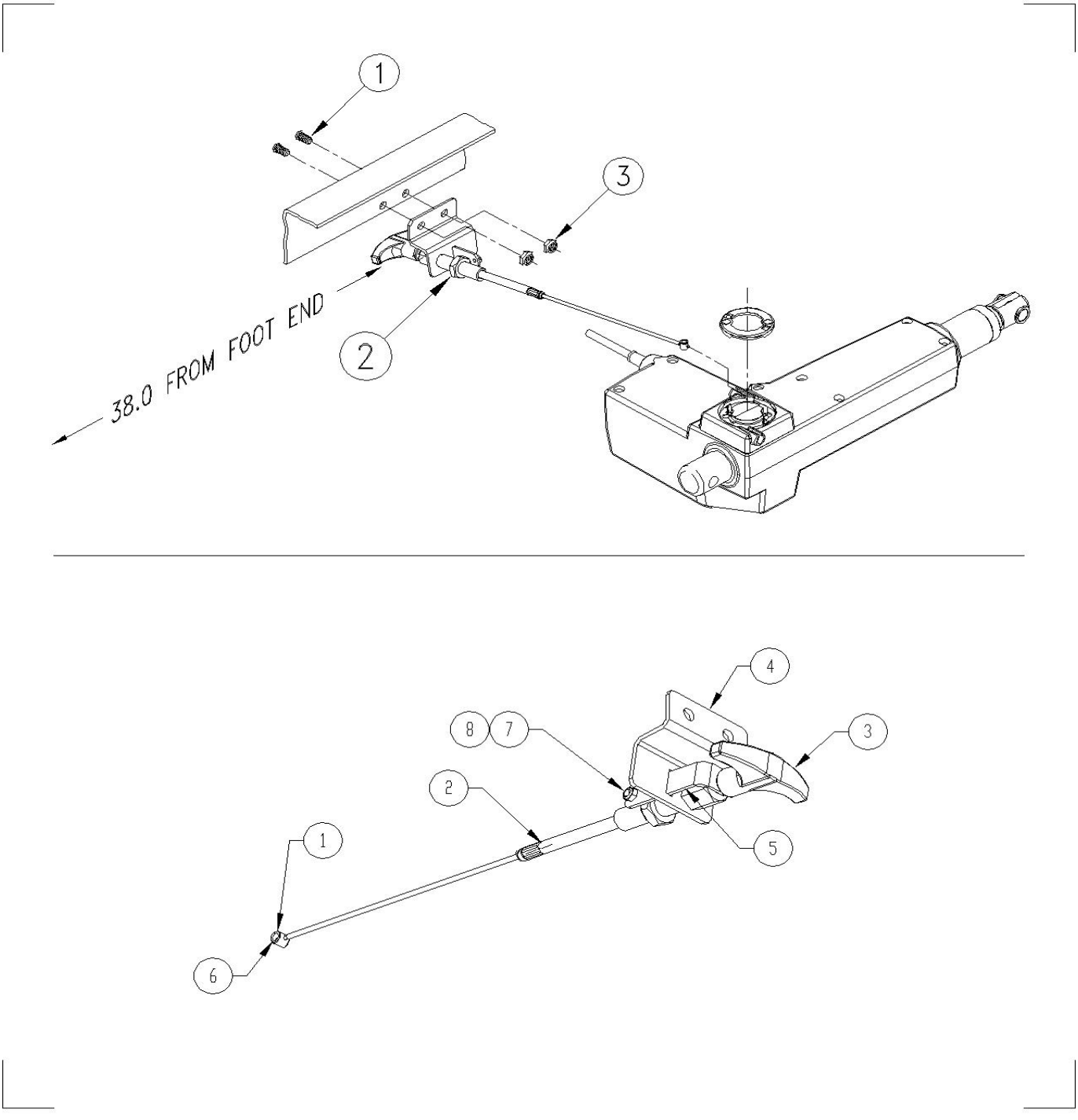


FIGURE 7-6. 5E8/5D8 & 5E7/5D& TOP ASSEMBLY (PART 2 OF 3)

FIGURE 7-6. 5E8/5D8 & 5E7/5D7 TOP ASSEMBLY (PART 3 OF 3)
(After July 1, 2013)

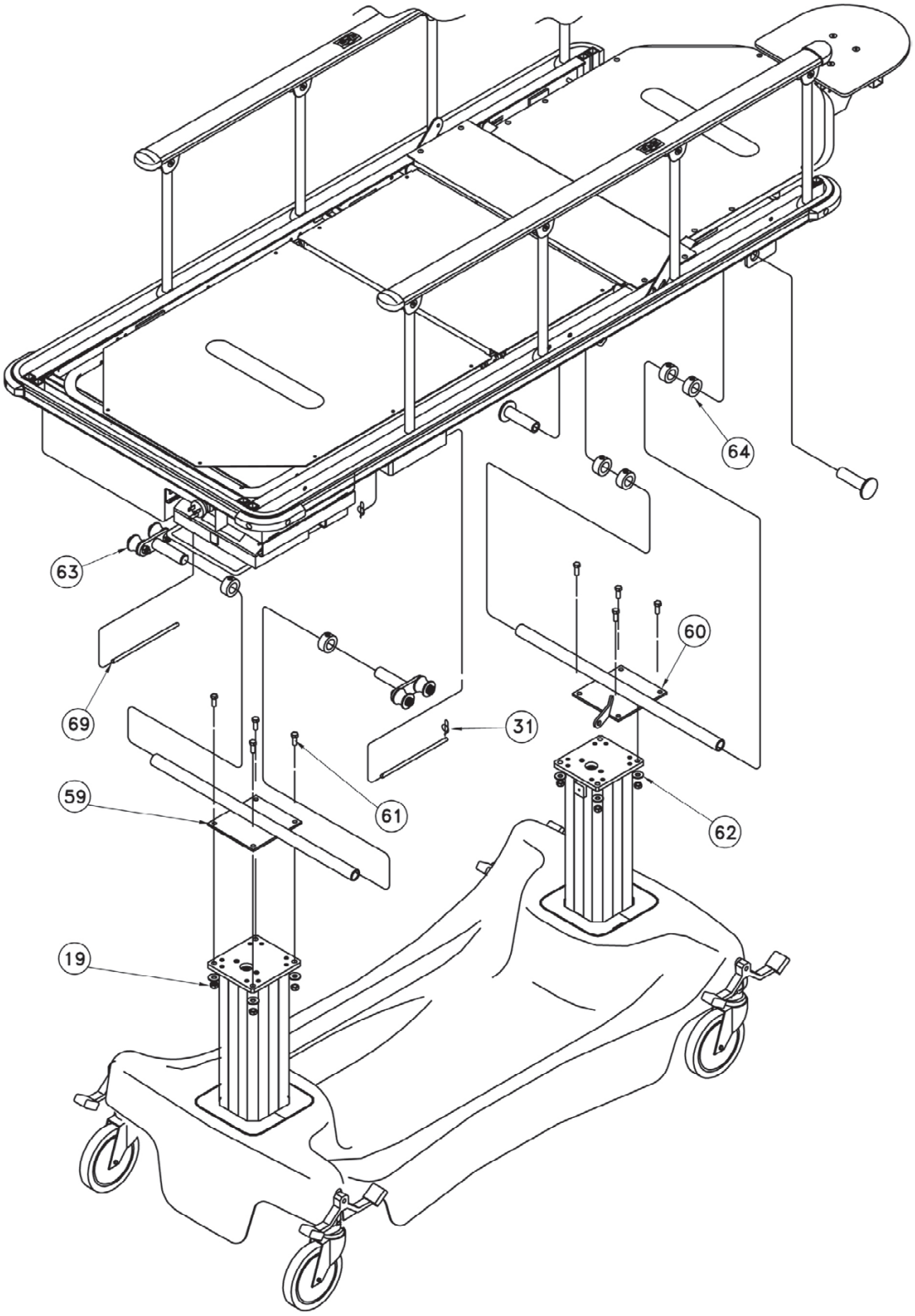


FIGURE 7-6. 5E8/5D8 & 5E7/5D& TOP ASSEMBLY (PART 3 OF 3)

FIGURE 7-6. 5E8/5D8 & 5E7/5D7 TOP ASSEMBLY (After July 1, 2013)

Item No.	Part No.	SVC	Description	Units Per Ass'y		
			5E8/5E7 TOP ASSEMBLY	X		
			5D8/5D7 TOP ASSEMBLY		X	
1	150830-648		EYE Top Weldment	1	1	
2	080512		ASSY, Fowl Horiz Elec Reg Width - 720 lb. Cap	1	1	
3	150830-645		Seat Pan	1	1	
4	150830-541		Horizon Knee Flex Assembly	1	1	
5	068786		1/4 - 20 X 5/8 LG Hex HD Cap Screw	4	4	
6	031455		1/4 - 20 Weld Nt ND-2118	8	8	
7	075627		Gas Spring Hinge Pin	3	3	
8	068154		Bumper Etrusion, Gray	1	1	
9	075066		EYE Surgery Retracto Rail Right	1	1	
10	075067		EYE Surgery Retracto Rail Left	1	1	
11	035122		1/4 - 20 X 1 5/8 Hex HD Cap Screw	8	8	
12	061195		1/4 - 20 X 5/8 Sock Button HD Screw	18	18	
13	035114		5/16 X 3/4 Shoulder Bolt	2	2	
14	065807		3/8 X 3/8 Hex Socket Head Shoulder	1	1	
15	P67650		Foot Section Cover	1	1	
16	080450		Anchor, Horizon Elec Actuator Reg Width	1	1	
17	P33013		Knee Section Cover	1	1	
18	031010		5/16 - 18 X 3/4 Hex HD Soc Screw	14	14	
19	031057		5/16 - 18 Locknut	15	15	
20	062209		Cross Bar Shaft KF	4	4	
21	067959		Bumper Exstrusion, Gray	2	2	
22	031212		Velcro Hook	2	2	
23	080531		Controller Assembly - 120V	1		
23	00532		Controller Assembly - 230 V		1	
24	031118		Spring Pin .188 X 1.00	6	6	
25	P66257		Fowler Sheet	1	1	
26	065227		Vinyl Closure	2	2	
27	000794		BSP 64 Rivet	27	27	
28	080524		.385 X 1.0625 LG Pivot Pin	1	1	
29	031055		1/4 - 20 Lock Nut	20	20	
30						
31	065258		Locking Cotter Clip	5	5	

FIGURE 7-6. 5E8/5D8 & 5E7/5D7 TOP ASSEMBLY (After July 1, 2013)

Item No.	Part No.	SVC	Description	Units Per Ass'y		
32						
33	080457		Pendant BL1/CB14 - HBB5 Hausted	1	1	
34	068481		Foot End Support Plate		2	
35	075330		Roller Bracket ASSY RH	1	1	
36	075331		Roller Bracket ASSY LH	1	1	
37	067958		Corner Bumper	4	4	
38	080454		Leg Rest LA31, Stretcher	1	1	
39	080453		Stretcher Actuator, Back Quick Release LA31	1	1	
40	075402		Controller Top Cover	1	1	
41	031500		10-24 X 1.00 Truss HD Mach SCR	4	4	
42	080079		Tape, DBL Sided 1/2" X 1 1/4"	2	2	
43	069440		3/16 X .540 Pop Rivet	4	4	
44	150830-796		Angle, Rail Stop	4	4	
45	075229		Nylon Arrow Clip	4	4	
46	075226		IV & Accessory Well Top Cap	4	4	
47	031090		1/4 Shake Proof Lock Washer	4	4	
48	075357		Fowler Stop Extrusion	2	2	
49	080474		Quick Release Pull Handle	1	1	
50	075502		10-24 X 1 1/8 Phil Pan HD Mach Screw	3	3	
51	031421		10-24 Lock Nut	3	3	
52	062358		Accessory Support Channel	1	1	
53	080440		.385 X 1.875 Pivot Pin	1	1	
54	080513		Dampner, Gas Spring	1	1	
55	035115		Nylon Washer	2	2	

FIGURE 7-7. EYE FOWLER ASSEMBLY

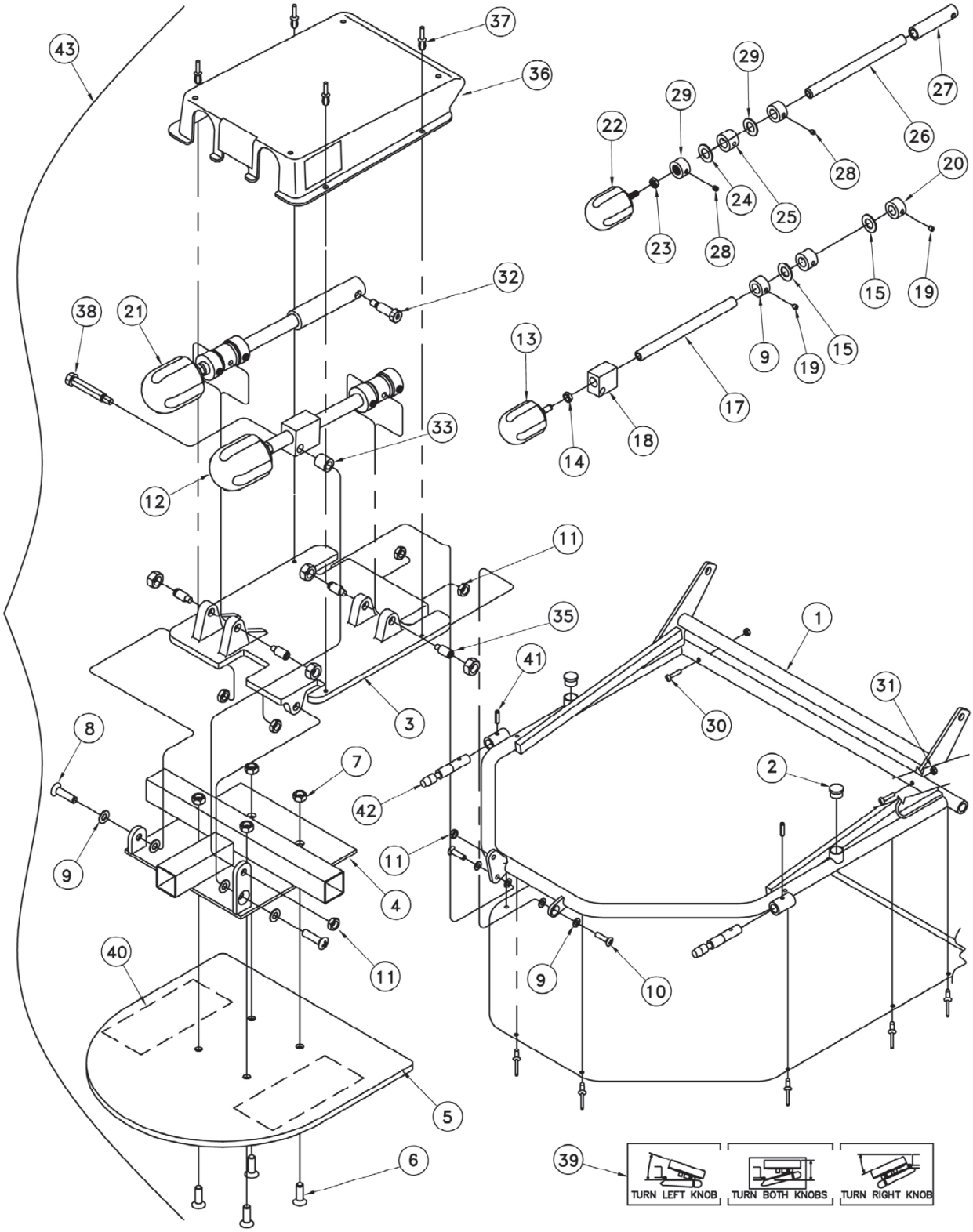


FIGURE7-7. EYE FOWLER ASSEMBLY

FIGURE 7-7. EYE FOWLER ASSEMBLY

Item No.	Part No.	SVC	Description	Units Per Assembly					
	075101		**EYE FOWLER ASSEMBLY**	**X**					
1	P75128		WELDMENT, Model 578 Backrest	1	X				
2	031175		PLUG, Hole, 18 Gauge	2	1				
3	075124		CASTING, Pivot Plate	1	1				
4	075120		ASSEMBLY, Head Board Support Plate	1	1				
5	075148		BOARD, Head	1	1				
6	031320		SCREW, Flat Head Socket, 1/4-20 x 3/4" Long	4					
7	031055		NUT, Lock, 1/4-20	4	1				
8	031038		SCREW, Phillips Oval Head Socket, 1/4-20 x 1" Long	4	8				
9	075145		WASHER, Nylon, 1/4" I.D. x 1/2" O.D. x 1/32" Thick	8	4				
10	031037		SCREW, Phillips Oval Head Socket, 1/4-20 x 1-1/2" Long	2	1				
11	068784		NUT, Jam, 1/4-20	8	1				
12	069436		ASSEMBLY, Adjusting Knob, Left	1	1				
13	075130		• KNOB, Head Adjustment	1	8				
14	068784		• NUT, Jam, 1/4-20	1	20				
15	055119		• WASHER, Nylon, 1/2" I.D. x 1" O.D.	2	2				
16	075131		• SCREW, Guide	1	1				
17	075129		• SCREW, Head Adjustment	1	1				
18	075133		• NUT, Height Adjustment	1	1				
19	031102		• SCREW, Cup Point Set, 1/4-20 x 1/4	2	1				
20	075227		• COLLAR, Acme Threaded	2	12				
21	069437		ASSEMBLY, Adjusting Knob, Right	1	12				
22	075130		• KNOB, Head Adjustment	1	4				
23	068784		• NUT, Jam, 1/4-20	1	2				
24	055119		• WASHER, Nylon, 1/2" I.D. x 1" O.D.	2	2				
25	075131		• SCREW, Guide	1					
26	075129		• SCREW, Head Adjustment	1	1				
27	075132		• NUT, Articulating	1	6				
28	031102		• SCREW, Cup Point Set, 1/4-20 x 1/4	2	6				
29	075227		• COLLAR, Acme Threaded	2	2				
30	075502		SCREW, Phillips Pan Head, #10-24 x 1-1/8" Long	2	27				
31	031421		NUT, Lock, 1/4-24	2	3				
32	035114		BOLT, Shoulder, 5/16" x 3/4" Long	1	22				
33	075147		SPACER, Nut	1	3				
34	031058		NUT, Free Thread, 5/17-18	4	4				
35	075134		SCREW, Dog Point Set, 5/17-28 1" Long	4	2				
36	075139		COVER, Articulating Headrest	1	1				
37	075150		RIVET, Nylon Drive, 3/16	4	2				
38	066617		BOLT, Shoulder, 5/16" x 1-1/4" Long	1	1				
39	075149		LABEL, Eye Operation (Split Into 3 Pcs	1	1				

FIGURE 7-7. EYE FOWLER ASSEMBLY

Item No.	Part No.			SVC	Description	Units Per Assembly					
40		067828			HOOK, Velcro, 2” x 5”	2					
41		031314			PIN, Spring, 3/16” x 3/4	2					
42		075152			Mounting	2					
43	P	755717	029		ASSEMBLY, Head Section	1					

FIGURE 7-8. PATIENT RAIL ASSEMBLY (LEFT AND RIGHT)

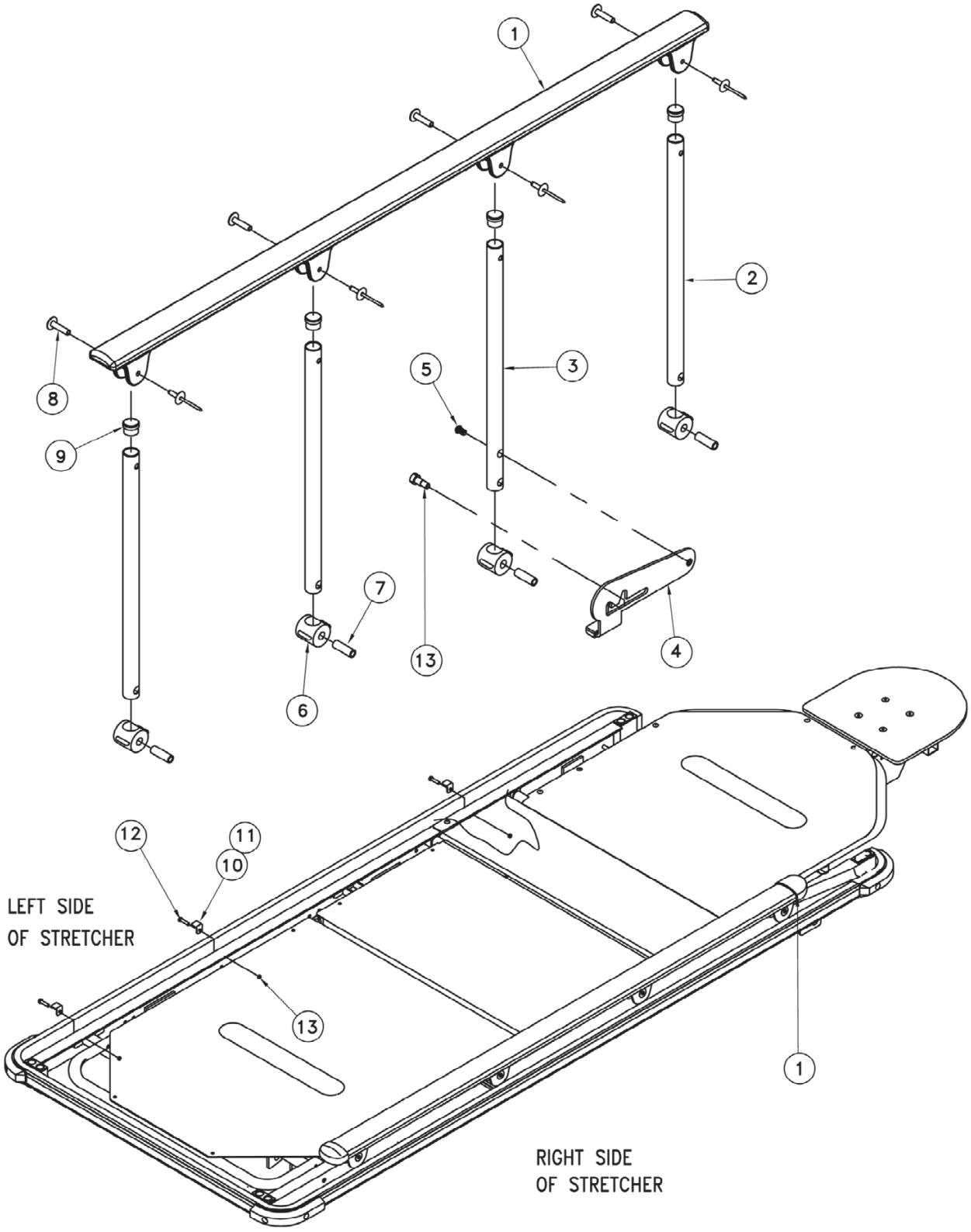


FIGURE 7.8. PATIENT RAIL ASSEMBLY (LEFT AND RIGHT)

FIGURE 7-8. PATIENT RAIL ASSEMBLY (LEFT AND RIGHT)

Item No.	Part No.			SVC	Description	Units Per Assembly					
		075067			**PATIENT RAIL ASSEMBLY, LEFT**	**X**					
		075066			**PATIENT RAIL ASSEMBLY, RIGHT**		**X**				
1	P	150830	555		ASSEMBLY, Top Cap	1	1				
2		075065			LEG, Rail	3	3				
3		075064			LEG, Lock	1	1				
4	P	056397	881		PLATE, Lock, Left	1					
P		056397	881		PLATE, Lock, Right	1					
5	P	150830	347		SCREW, Button Head Cap, 1/4-20 x 3/8” Long	1	1				
6		035137			ROCKER	4	4				
7		035138			SPACER	4	4				
8		068886			RIVET, Cherry, Mate (2 Piece	4	4				
9		031175			PLUG, Button	4	4				
10	P	056397	816		ANGLE, Support	6	6				
11	P	150830	298		CAP, Vinyl	6	6				
12		068786			SCREW, Hex Head Socket, 1/4-20 x 3/4” Long	6	6				
13		031055			NUT, Lock	6	6				

FIGURE 7-9. 5E8/5D8 & 5D7/5E7 CONTROLLER ASSEMBLY (AFTER 7.1.13)

IMPORTANT NOTE:

To reduce the risk of electric shock, do not remove the cover. Unit is to be serviced by qualified personnel only.

For detailed plug locations, see Figure 7-13. plug and Wiring Diagram (after 06/01/98) and Figure 7-14. plug and Wiring Diagram (Before 06/01/98).

For detailed label location, see Figure 7-15. label locations.

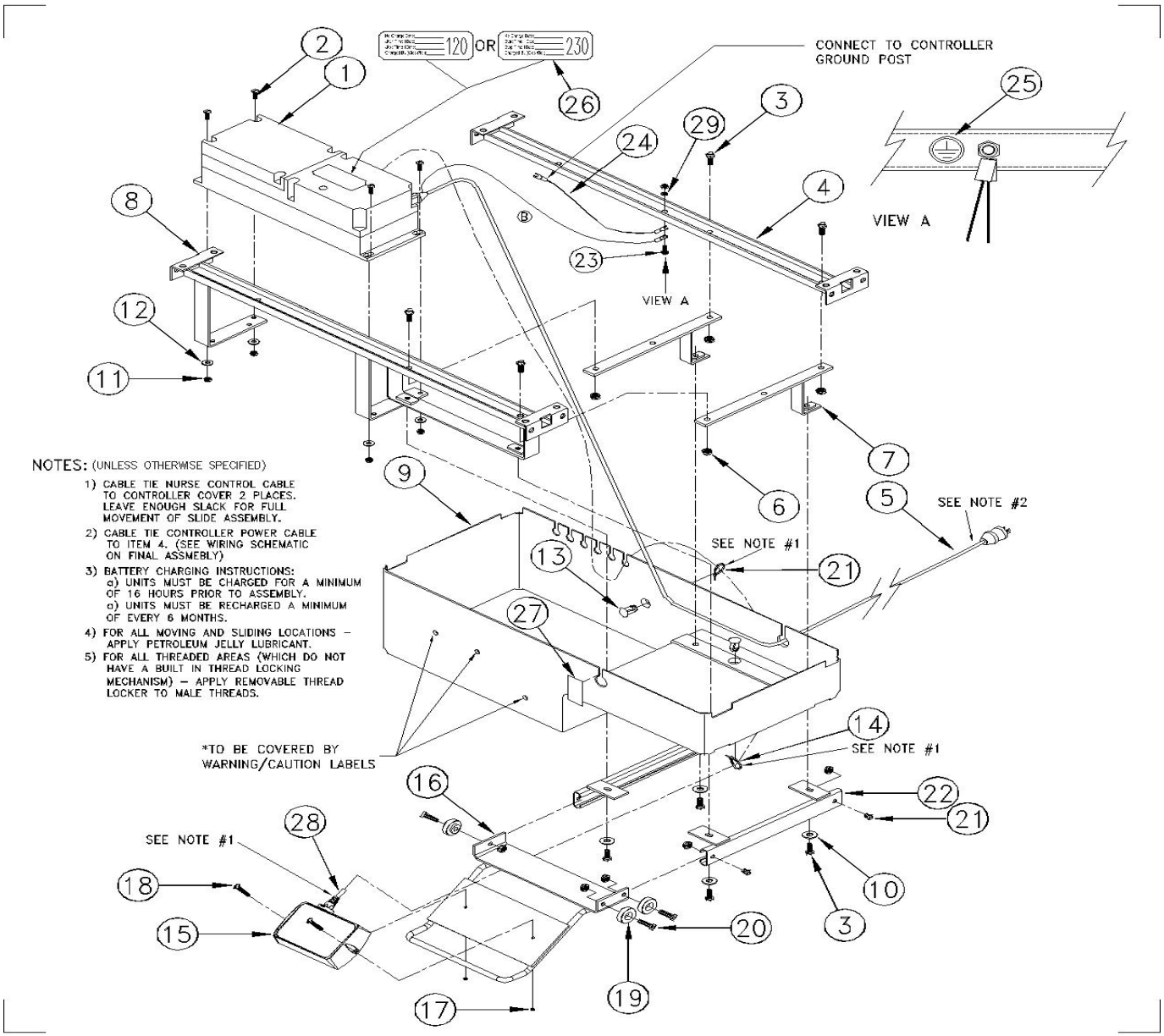

120 OR 230
CONNECT TO CONTROLLER GROUND POST
VIEW A
VIEW A
SEE NOTE #1
SEE NOTE #2
SEE NOTE #1
SEE NOTE #1
*TO BE COVERED BY WARNING/CAUTION LABELS
NOTES: (UNLESS OTHERWISE SPECIFIED)
1) CABLE TIE NURSE CONTROL CABLE TO CONTROLLER COVER 2 PLACES. LEAVE ENOUGH SLACK FOR FULL MOVEMENT OF SLIDE ASSEMBLY.
2) CABLE TIE CONTROLLER POWER CABLE TO ITEM 4. (SEE WIRING SCHEMATIC ON FINAL ASSMEBLY)
3) BATTERY CHARGING INSTRUCTIONS:
a) UNITS MUST BE CHARGED FOR A MINIMUM OF 16 HOURS PRIOR TO ASSEMBLY.
a) UNITS MUST BE RECHARGED A MINIMUM OF EVERY 6 MONTHS.
4) FOR ALL MOVING AND SLIDING LOCATIONS – APPLY PETROLEUM JELLY LUBRICANT.
5) FOR ALL THREADED AREAS (WHICH DO NOT HAVE A BUILT IN THREAD LOCKING MECHANISM) – APPLY REMOVABLE THREAD LOCKER TO MALE THREADS.

FIGURE 7-9. 5E8/5D8 & 5E7/5D7 CONTROLLER ASSEMBLY (AFTER 7.1.13)

FIGURE 7-9. 5E8/5D8 & 5E7/5D7 CONTROLLER ASSEMBLY (AFTER 7.1.13)

Item No.	Part No.	SVC	Description	Units Per Ass'y		
			5E8/5E7 CONTROLLER ASSY	X		
			5D8/5D7 CONTROLLER ASSY		X	
1	080455		CB-16 Controller 120V Elec ST - 720 lb. Cap	1		
1	080456		CB-16 Controller 230V Elec ST - 720 lb. Cap		1	
2	061159		10-24 X 5/8 THMS	4	4	
3	068786		1/4 - 20 X 5/8 Hex Head Cap Screw	8		
4	075499		Controller Hanger Front	1	1	
5	080521		120VAC Power Cord 17"	1	1	
6	031055		1/4-20 Lock Nut	9	9	
7	075705		Cord Reel Bracket Weldmt	2	2	
8	080533		Controller Hanger - Rear	1	1	
9	075742		Controller Cover	1	1	
10	031364		1/4 Flat Washer	4	4	
11	031421		10-24 Lock Nut w/ Nylon Insert	4	4	
12	031074		3/16 Flat Washer	4	4	
13	063031		Push Mounts (#PBMS-H25-C)	2	2	
14	431175-091		Cable Tie	2	2	
15	08045		Nurse Control Box	1	1	
16	080540		SLDE Assembly Lock Out	1	1	
17	118439045		Lock Nut, Nylon Insert	2	2	
18	003964041		#6 - 32 Screw Slotted RD Head Machine	2	2	
19	068663		Plastic Guide	3	3	
20	066925		1/4-20 X 1.00 Flat Head Soc Screw	3	3	
21	061195		1/4-20 X 5/8 Soc Button HD SC	2	2	
22	P75096		Track Assembly Lock Out Support	2	2	
23	031000		10-24 X 1/2 HHCS	1		
24	076125		Controller Ground Wire	1	1	
25	076132		Label, Ground Symbol	1	1	
26	069477		Charging Label	1	1	
26	069479		Charging Label		1	
27	076130		Overlay, Slot Controller Cover	1	1	
28	080467		Lock Out CAble to Controller	1	1	
29	031090		Star Lock Washer	1	1	

FIGURE 7-10. 5E8/5D8 & 5E7/5D7 CONTROLLER ASSEMBLY (AFTER 5.1.00, PRIOR TO 7.1.13)

IMPORTANT NOTE:

To reduce the risk of electric shock, do not remove the cover. Unit is to be serviced by qualified personnel only.

For detailed plug locations, see Figure 7-13. plug and Wiring Diagram (after 06/01/98) and Figure 7-14. plug and Wiring Diagram (Before 06/01/98).

For detailed label location, see Figure 7-11. label locations.

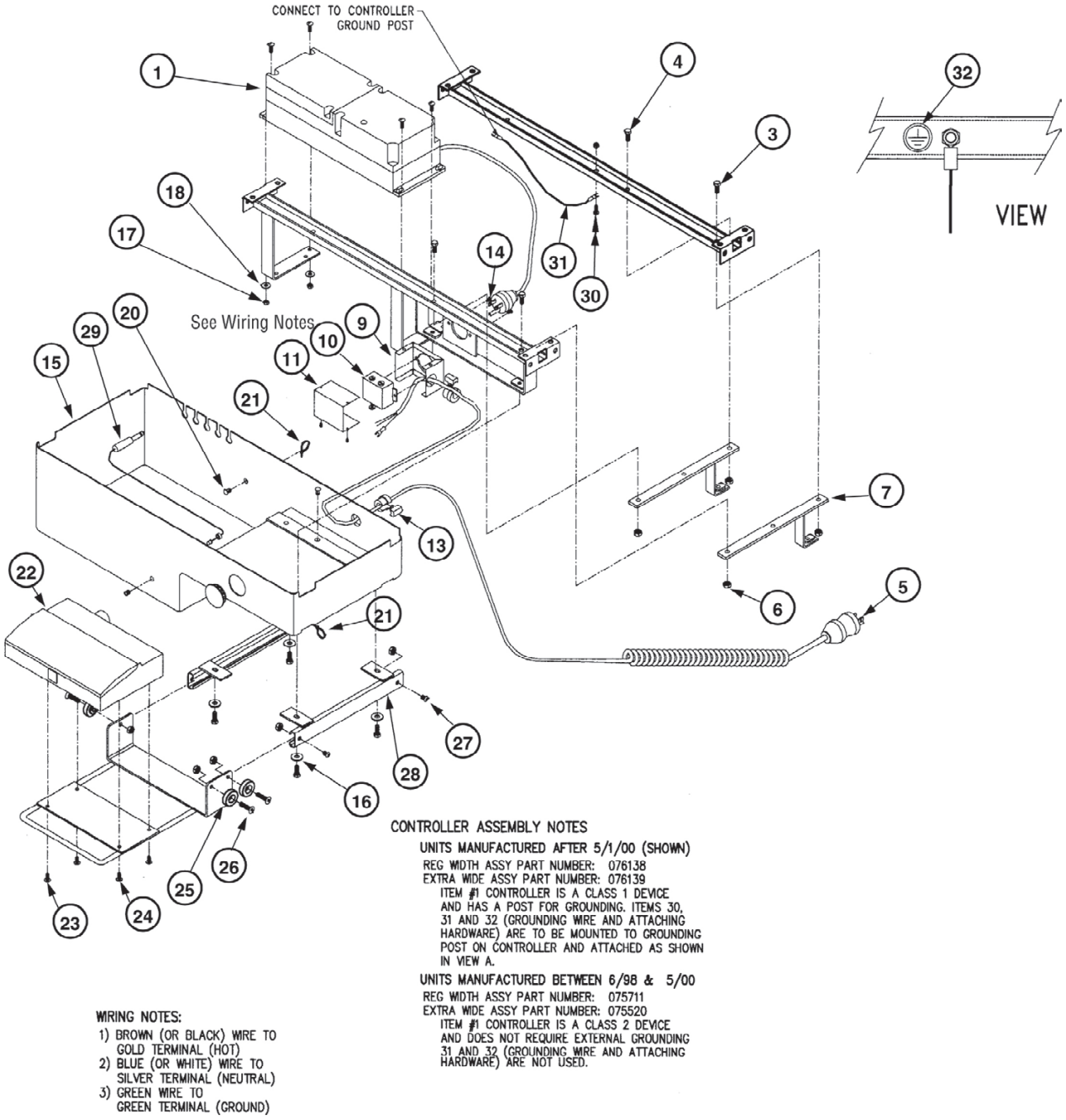

CONNECT TO CONTROLLER GROUND POST
See Wiring Notes
VIEW
WIRING NOTES:
1) BROWN (OR BLACK) WIRE TO GOLD TERMINAL (HOT)
2) BLUE (OR WHITE) WIRE TO SILVER TERMINAL (NEUTRAL)
3) GREEN WIRE TO GREEN TERMINAL (GROUND)
CONTROLLER ASSEMBLY NOTES
UNITS MANUFACTURED AFTER 5/1/00 (SHOWN)
REG WIDTH ASSY PART NUMBER: 076138
EXTRA WIDE ASSY PART NUMBER: 076139
ITEM #1 CONTROLLER IS A CLASS 1 DEVICE AND HAS A POST FOR GROUNDING. ITEMS 30, 31 AND 32 (GROUNDING WIRE AND ATTACHING HARDWARE) ARE TO BE MOUNTED TO GROUNDING POST ON CONTROLLER AND ATTACHED AS SHOWN IN VIEW A.
UNITS MANUFACTURED BETWEEN 6/98 & 5/00
REG WIDTH ASSY PART NUMBER: 075711
EXTRA WIDE ASSY PART NUMBER: 075520
ITEM #1 CONTROLLER IS A CLASS 2 DEVICE AND DOES NOT REQUIRE EXTERNAL GROUNDING 31 AND 32 (GROUNDING WIRE AND ATTACHING HARDWARE) ARE NOT USED.

FIGURE 7-10. 5E8/5D8 &5E7/5D7 CONTROLLE ASSEMBLY (AFTER 5.1.00, PRIOR TO 7.1.13)

FIGURE 7-10. 5E8/5D8 & 5E7/5D7 CONTROLLER ASSEMBLY (AFTER 5.1.00, PRIOR TO 7.1.13)

Item No.	Part No.			SVC	Description	Units Per Assembly					
	P	**076138**	**5E8**		**CONTROLLER ASSEMBLY (AFTER 5.1.00) REG**	**X**					
	P	**076139**	**5E8**		**CONTROLLER ASSEMBLY (AFTER 5.1.00) EW**		**X**				
	P	**076140**	**5D8**		**CONTROLLER ASSEMBLY (AFTER 5.1.00) REG**			**X**			
	P	**076129**	**5D8**		**CONTROLLER ASSEMBLY (AFTER 5.1.00) EW**				**X**		
1	P	075044			CONTROLLER 120VAC	1	–	–	–		
	P	075718			CONTROLLER 230VAC	–	–	1	1		
2	P	061159			SCREW, Truss Head Machine, #10-24 x 5/8” Long	4	–	–	–		
3	P	068786			SCREW, Hex Head Cap, 1/4-20 x 5/8” Long	8	–	–	–		
4	P	075499			HANGER, Controller, Front	1	–	1	–		
	P	075702			HANGER, Controller, Front	–	1	–	1		
5	P	075745			CORD, Coil, Set, 120vac	1	–	–	–		
6	P	031055			NUT, Lock, 1/4-20	9	–	–	–		
7	P	075705			WELDMENT, Cord Reel Bracket	2	–	–	–		
8	P	075498			HANGER, Controller, Rear	1	–	1	–		
	P	075703			HANGER, Controller, Rear	–	1	–	1		
9	P	068979			BASE, Junction Box	1	–	–	–		
10	P	068976			RECEPTACLE, Hospital Grade 120vac	1	–	–	–		
11	P	068980			COVER, Junction Box	1	–	–	–		
12	P	031097			SCREW, Sheet Metal, #6	2	–	–	–		
13	P	068982			RELIEF, Strain	2	–	–	–		
14	P				SCREW, #8-32 (Furnished With Receptacle)	–	2	–	2		
15	P	075742			COVER, Controller	1	–	–	–		
16	P	031364			WASHER, Flat	4	–	–	–		
17	P	031421			NUT, Lock, W/Nylon Insert, #10-24	4	–	–	–		
18	P	031074			WASHER, Flat, 3/16”	4	–	–	–		
19	P	075744			BUTTON, Plug, 1-1/2	1	–	–	–		
20	P	063031			MOUNTS, Push, (#PBMS-H25-C)	2	–	–	–		
21	P	065403			TIE, Cable	1	–	–	–		
22	P	075716			BOX, Nurse Control	1	–	–	–		
23	P	P75093			ASSEMBLY, Slide, Lock Out	1	–	–	–		
24	P	075036			SCREW, Cheese Head, M5 x .8 x 10mm Long	4	–	–	–		
25	P	068663			GLIDE, Plastic	3	–	–	–		
26	P	066925			SCREW, Flat Head Socket, 1/4-20 0 x 1.00” Long	3	–	–	–		
27	P	061195			SCREW, Soc Button Head, 1/4-20 x 5/8” Long	2	–	–	–		
28	P	P75096			ASSEMBLY, Track, Lock Out Support	2	–	–	–		
29	P	075749			ASSEMBLY, Cable Led	1	–	–	–		
30	P	031000			SCREW, Hex Head Cap, #10-24 x 1/2” Long	1	–	–	–		
31	P	076125			WIRE, Controller Ground	1	–	–	–		
32	P	076132			LABEL, Ground Symbol	1	–	–			

FIGURE 7-11. 5E8 CONTROLLER ASSEMBLY (BEFORE 6.1.98)

IMPORTANT NOTE:

To reduce the risk of electric shock, do not remove the cover. Unit is to be serviced by qualified personnel only.

For detailed Plug locations, see Figure 7-13. Plug and Wiring Diagram (after 06/01/98) and Figure 7-14. Plug and Wiring Diagram (Before 06/01/98). For detailed label location, see Figure 7-15. label locations.

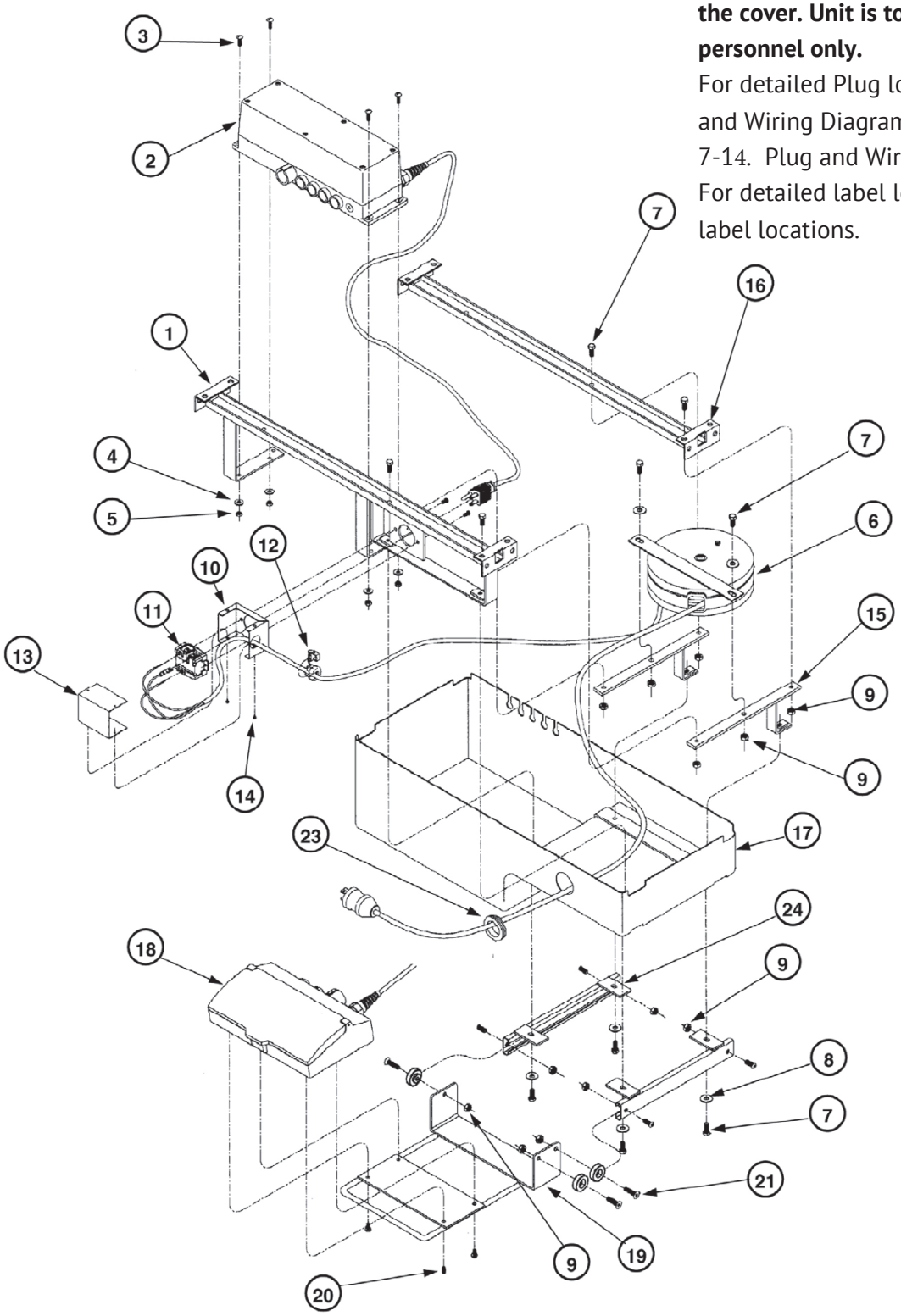


FIGURE 7-11. 5E8 CONTROLLER ASSEMBLY (BEFORE 6.1.98)

FIGURE 7-11. 5E8 CONTROLLER ASSEMBLY (BEFORE 6.1.98)

Item No.	Part No.			SVC	Description	Units Per Assembly					
	P	**075711**	**5E8**		**CONTROLLER ASSEMBLY (BEFORE 6.1.98) REG**	**X**					
	P	**075520**	**5E8**		**CONTROLLER ASSEMBLY (BEFORE 6.1.98) EW**		**X**				
1	P	075498			HANGER, Controller, Rear	1					
	P	075702			HANGER, Controller, Rear		1				
2	P	068962			CONTROLLER (Mfg Before 9.98)		1				
3	P	075054			CONTROLLER (Mfg After 9.98)	1					
P		061195			SCREW, Truss Head Machine, #10-24 x 5/8” Long	4					
4	P	031074			WASHER, Flat, #10	4					
5	P	031421			NUT, Lock, #10	4					
6	P	068966			REEL, Cord		1				
7	P	068686			SCREW, Hex Head Cap, 1/4-20 x 5/8” Long	10					
8	P	031364			WASHER, Flat	6					
9	P	031055			NUT, Lock, 1/4-20	10					
10	P	068979			BASE, Junction Box	1					
11	P	068976			RECEPTACLE, Hospital Grade	1					
12	P	068982			RELIEF, Strain	1					
13	P	068980			COVER, Junction Box	1					
14	P	031097			SCREW, Sheet Metal, #6 x	2					
15	P	075705			BRACKET, Cord Reel	2					
16	P	075499			HANGER, Controller, Front		1				
	P	075703			HANGER, Controller, Front	1					
17	P	075077			COVER, Controller	1					
18	P	068863			BOX, Nurse Control, (Mfg Before 9/98)	1					
19	P	075716			BOX, Nurse Control, (Mfg After 9/98)	1					
20	P	075036			SCREW, Cheese Head Machine, M5 x .8 x 10mm	4					
21	P	068663			GLIDE, Plastic	3					
22	P	066925			SCREW, Flat Socket Head Machine, 1/4-20 x 1.0” Long	3					
23	P	061195			SCREW, Button Head Cap, 1/4-20 x 5/8” Long	2					
24	P	P75096			TRACK, Lock Out Support	2					
25	P	068981			GROMMET, Rubber	1					

FIGURE 7-12. PLUG AND WIRING DIAGRAM (AFTER 7.1.13)

IMPORTANT NOTE:

To reduce the risk of electric shock, do not remove the cover. Unit is to be serviced by qualified personnel only.

For detaiLed LabeL Location, see Figure 7-15. LabeL Locations.

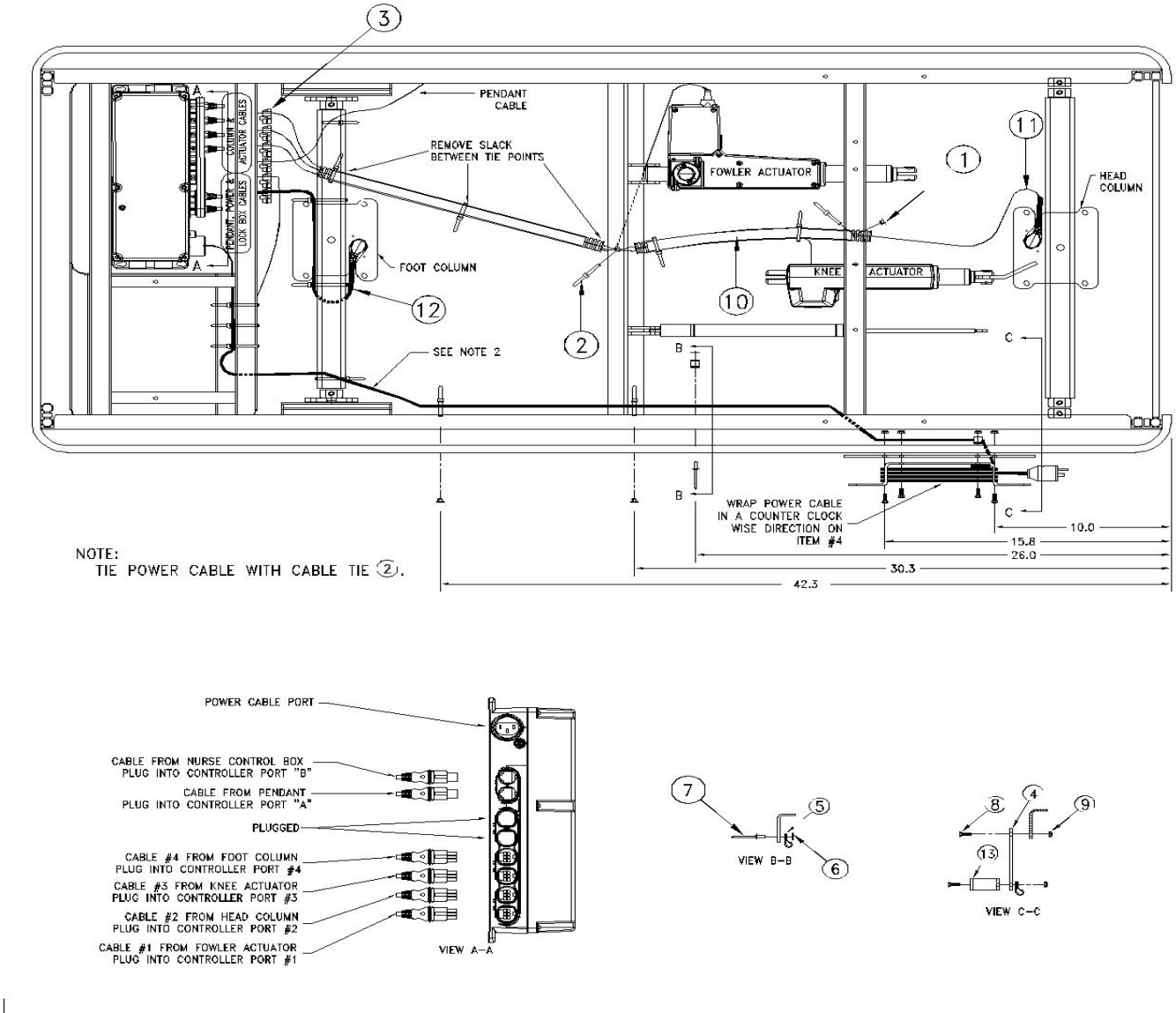


FIGURE 7-12. PLUG AND WIRING DIAGRAM (AFTER 7.1.13)

FIGURE 7-12. PLUG AND WIRING DIAGRAM (AFTER 7.1.13)

Item No.	Part No.	SVC	Description	Units Per Ass'y		
1	063031		Button	3		
2	431172-091		Cable Tie	15		
3	068864		Strain Relief	6		
4	080509		Power Cord Wrap Mounting Bracket, Stretcher	1		
5	065438		Cable Clamp	2		
6	031072		Flat Washer	1		
7	000794		3/16 Pop Rivet	1		
8	031000		10-24 X 1/2 Hex HD. Mach.	4		
9	031421		#10-24 Lock Nut	4		
10	075763		Tubing, Corrugated	2		
11	080466		Head End, Column to Cont Cable - Stretcher	1		
12	080465		Foot End, Column to Cont Cable - Stretcher	1		
13	076123		Bracket Cord Wrap	1		

FIGURE 7-13. PLUGAND WIRING DIAGRAM (AFTER 6.1.98, BEFORE 7.1.13)

IMPORTANT NOTE:

To reduce the risk of electric shock, do not remove the cover. Unit is to be serviced by qualified personnel only.

For detaiLed LabeL Location, see Figure 7-15. LabeL Locations.

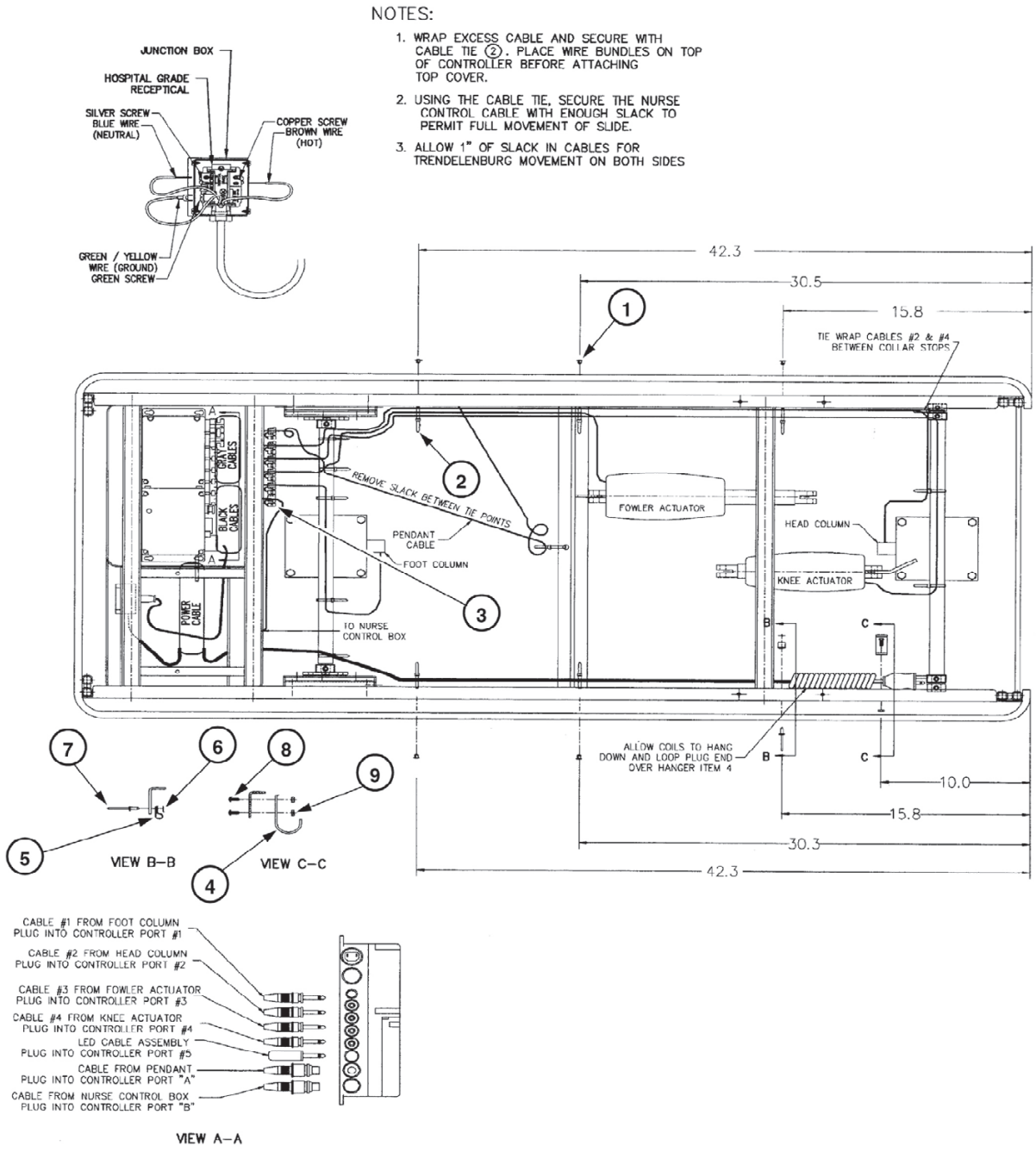

NOTES:
1. WRAP EXCESS CABLE AND SECURE WITH CABLE TIE (2). PLACE WIRE BUNDLES ON TOP OF CONTROLLER BEFORE ATTACHING TOP COVER.
2. USING THE CABLE TIE, SECURE THE NURSE CONTROL CABLE WITH ENOUGH SLACK TO PERMIT FULL MOVEMENT OF SLIDE.
3. ALLOW 1" OF SLACK IN CABLES FOR TRENDELENBURG MOVEMENT ON BOTH SIDES
JUNCTION BOX
HOSPITAL GRADE RECEPTICAL
SILVER SCREW BLUE WIRE (NEUTRAL)
COPPER SCREW BROWN WIRE (HOT)
GREEN / YELLOW WIRE (GROUND) GREEN SCREW
42.3
30.5
15.8
TIE WRAP CABLES #2 & #4 BETWEEN COLLAR STOPS
GRAY CABLES
BLACK CABLES
POWER CABLE
REMOVE SLACK BETWEEN TIE POINTS
PENDANT CABLE
FOOT COLUMN
TO NURSE CONTROL BOX
FOWLER ACTUATOR
HEAD COLUMN
KNEE ACTUATOR
ALLOW COILS TO HANG DOWN AND LOOP PLUG END OVER HANGER ITEM 4
10.0
15.8
30.3
42.3
VIEW B–B
VIEW C–C
CABLE #1 FROM FOOT COLUMN PLUG INTO CONTROLLER PORT #1
CABLE #2 FROM HEAD COLUMN PLUG INTO CONTROLLER PORT #2
CABLE #3 FROM FOWLER ACTUATOR PLUG INTO CONTROLLER PORT #3
CABLE #4 FROM KNEE ACTUATOR PLUG INTO CONTROLLER PORT #4
LED CABLE ASSEMBLY PLUG INTO CONTROLLER PORT #5
CABLE FROM PENDANT PLUG INTO CONTROLLER PORT "A"
CABLE FROM NURSE CONTROL BOX PLUG INTO CONTROLLER PORT "B"
VIEW A–A

FIGURE 7-13. PLUG AND WIRING DIAGRAM (AFTER 6.1.98, BEFORE 7.1.13)

FIGURE 7-13. PLUG AND WIRING DIAGRAM (AFTER 6.1.98, BEFORE 7.1.13)

Item No.	Part No.			SVC	Description	Units Per Assembly					
					PLUG AND WIRING DIAGRAM (AFTER 6.1.98)	**X**					
1	P	063031			BUTTON	5					
2	P	065403			TIE, Cable	20					
3	P	068874			RELIEF, Strain	6					
4	P	P75743			CORD, Hanger Coil	1					
5	P	065438			CLAMP, Cable	1					
6	P	031072			WASHER, Flat	1					
7	P	000794			RIVET, Pop, 3/16	1					
8	P	061159			SCREW, Slot Truss Head. Mach, #10-24 x 5/8	2					
9	P	031421			NUT, Lock, #10-24	2					

FIGURE 7-14. PLUG AND WIRING DIAGRAM (BEFORE 6.1.98)

IMPORTANT NOTE:

To reduce the risk of electric shock, do not remove the cover. Unit is to be serviced by qualified personnel only.

For detailed plug locations, see Figure 7-13. plug and Wiring Diagram (after 06/01/98) and Figure 7-14. plug and Wiring Diagram (Before 06/01/98). For detailed label location, see Figure 7-15. label locations.

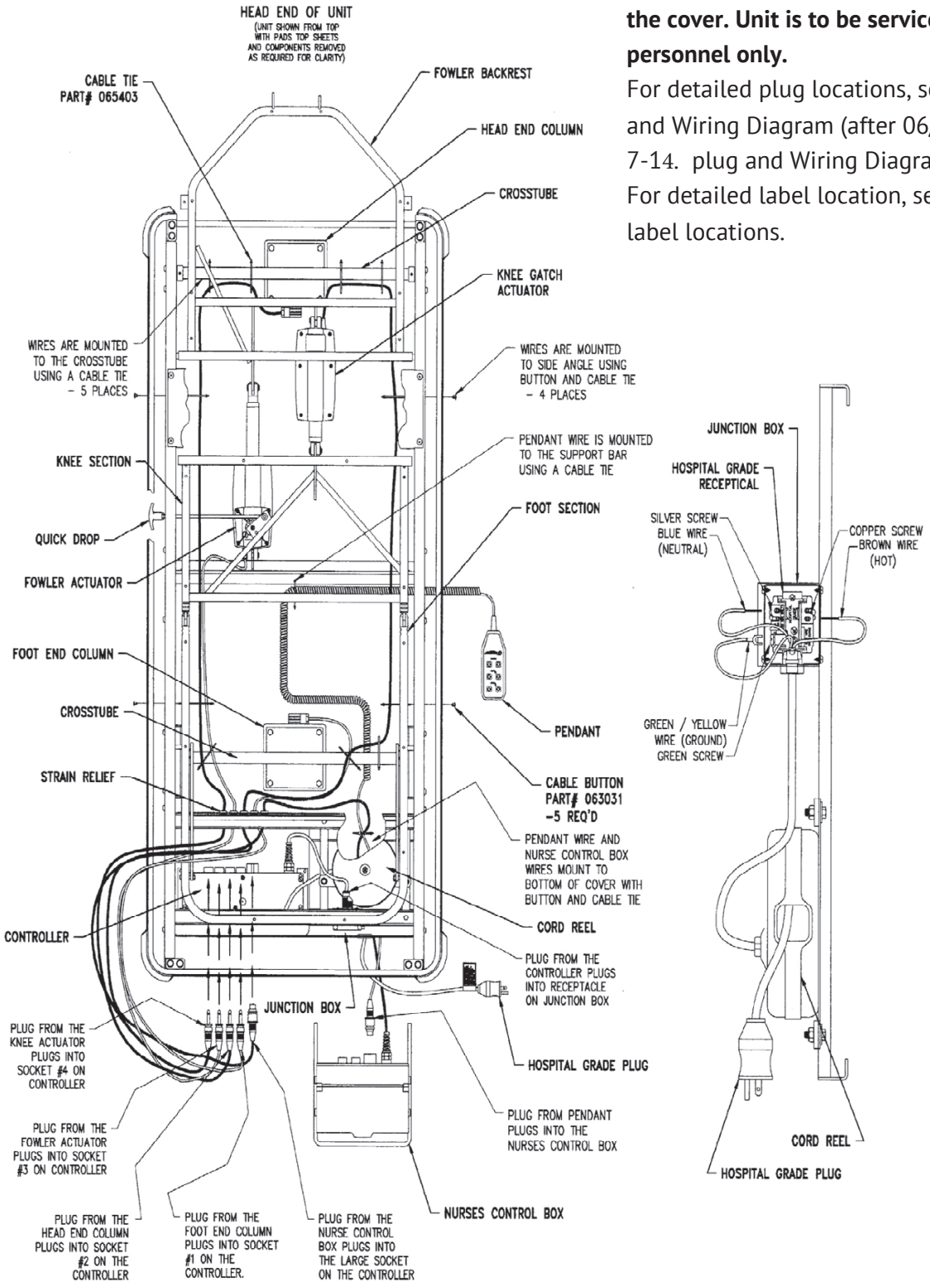
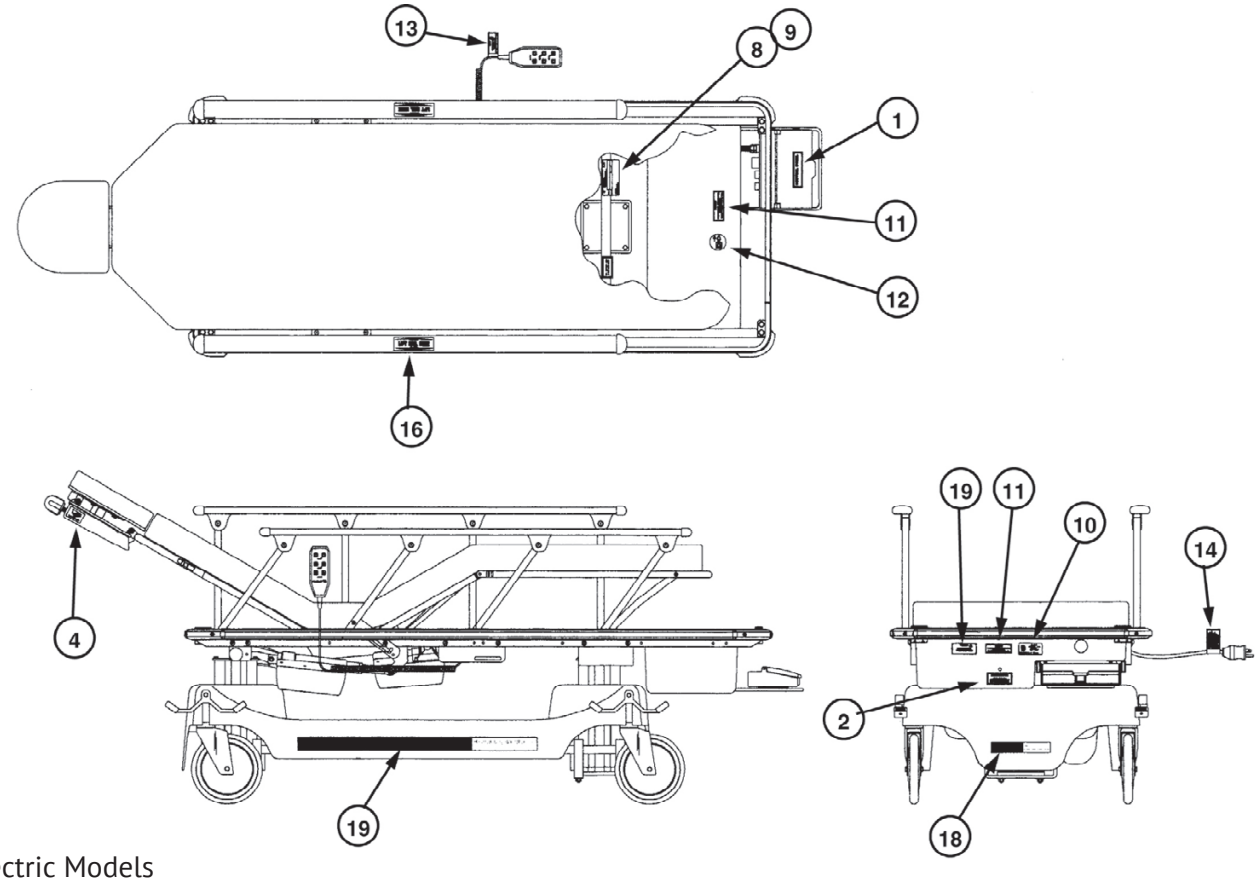

HEAD END OF UNIT
(UNIT SHOWN FROM TOP WITH PADS TOP SHEETS AND COMPONENTS REMOVED AS REQUIRED FOR CLARITY)
CABLE TIE PART# 065403
FOWLER BACKREST
HEAD END COLUMN
CROSSTUBE
KNEE GATCH ACTUATOR
WIRES ARE MOUNTED TO THE CROSSTUBE USING A CABLE TIE - 5 PLACES
WIRES ARE MOUNTED TO SIDE ANGLE USING BUTTON AND CABLE TIE - 4 PLACES
KNEE SECTION
PENDANT WIRE IS MOUNTED TO THE SUPPORT BAR USING A CABLE TIE
FOOT SECTION
QUICK DROP
FOWLER ACTUATOR
FOOT END COLUMN
CROSSTUBE
PENDANT
STRAIN RELIEF
CABLE BUTTON PART# 063031 -5 REQ'D
PENDANT WIRE AND NURSE CONTROL BOX WIRES MOUNT TO BOTTOM OF COVER WITH BUTTON AND CABLE TIE
CONTROLLER
CORD REEL
PLUG FROM THE CONTROLLER PLUGS INTO RECEPTACLE ON JUNCTION BOX
JUNCTION BOX
PLUG FROM THE KNEE ACTUATOR PLUGS INTO SOCKET #4 ON CONTROLLER
HOSPITAL GRADE PLUG
PLUG FROM PENDANT PLUGS INTO THE NURSES CONTROL BOX
PLUG FROM THE FOWLER ACTUATOR PLUGS INTO SOCKET #3 ON CONTROLLER
NURSES CONTROL BOX
PLUG FROM THE HEAD END COLUMN PLUGS INTO SOCKET #2 ON THE CONTROLLER
PLUG FROM THE FOOT END COLUMN PLUGS INTO SOCKET #1 ON THE CONTROLLER.
PLUG FROM THE NURSE CONTROL BOX PLUGS INTO THE LARGE SOCKET ON THE CONTROLLER
JUNCTION BOX
HOSPITAL GRADE RECEPTICAL
SILVER SCREW BLUE WIRE (NEUTRAL)
COPPER SCREW BROWN WIRE (HOT)
GREEN / YELLOW WIRE (GROUND) GREEN SCREW
CORD REEL
HOSPITAL GRADE PLUG

FIGURE 7-14. PLUG AND WIRING DIAGRAM (BEFORE 6.1.98)

FIGURE 7-15. LABEL LOCATIONS



Electric Models

Manual/Hydraulic Models

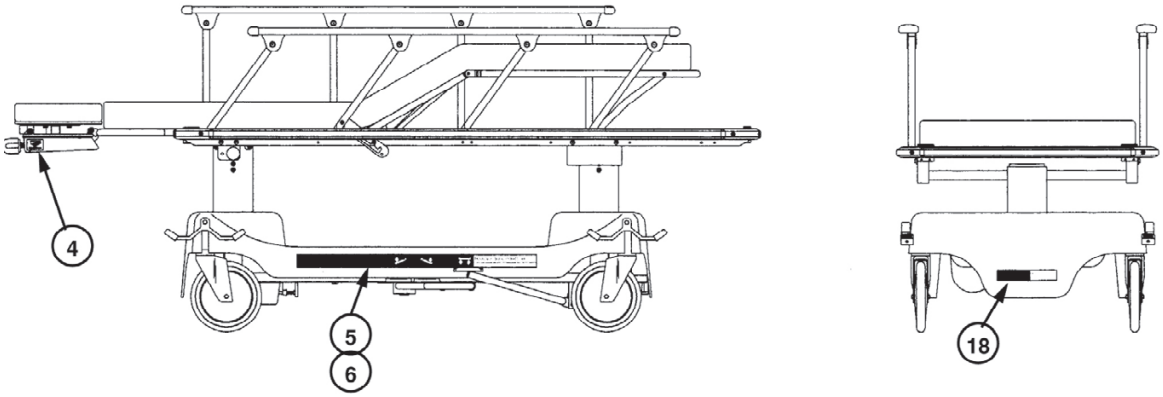


FIGURE 7-15. LABEL LOCATIONS

FIGURE 7-15. LABEL LOCATIONS

Item No.	Part No.			SVC	Description	Units Per Assembly					
					LABEL LOCATIONS	**X**					
1	P	075035			LABEL, Control Panel	1	0				
2	P	075490			LABEL, Max Patient Weight	1	1				
3	P	075040			LABEL, Emer Drop Back Rest	1	0				
4	P	075149			LABEL, Articulating Headrest Label	1	1				
5	P	075849			LABEL, Side Hydraulic Right	0	1				
6	P	075850			LABEL, Side Hydraulic Left	0	1				
7	P	063022			LABEL, Service	1	1				
8	P	031457			LABEL, Serial Number (578	–	1				
	P	076127			LABEL, Serial Number (5E8)	1	–				
	P	075475			LABEL, Serial Number (5D8)	1	–				
9	P	031458			LABEL, Clear Overlay	1	1				
10	P	076148			LABEL, Etl	1	0				
11	P	068855			LABEL, Service Caution	2	0				
12	P	075484			LABEL, Unplug Before Servicing	2	1				
13	P	075489			LABEL, Pendant	1	0				
14	P	055025			LABEL, Hosp Grade Plug	1	0				
15	P	061469			LABEL, Power	1	0				
16	P	035598			LABEL, Lift Rail Here	2	2				
17	P	075748			LABEL, Low Battery Warning	1	0				
18	P	075831			LABEL, End	2	2				
19	P	075838			LABEL, Side Electric	2	0				

FIGURE 7-16. WRIST REST ASSEMBLY, EYE, DUAL LATERAL

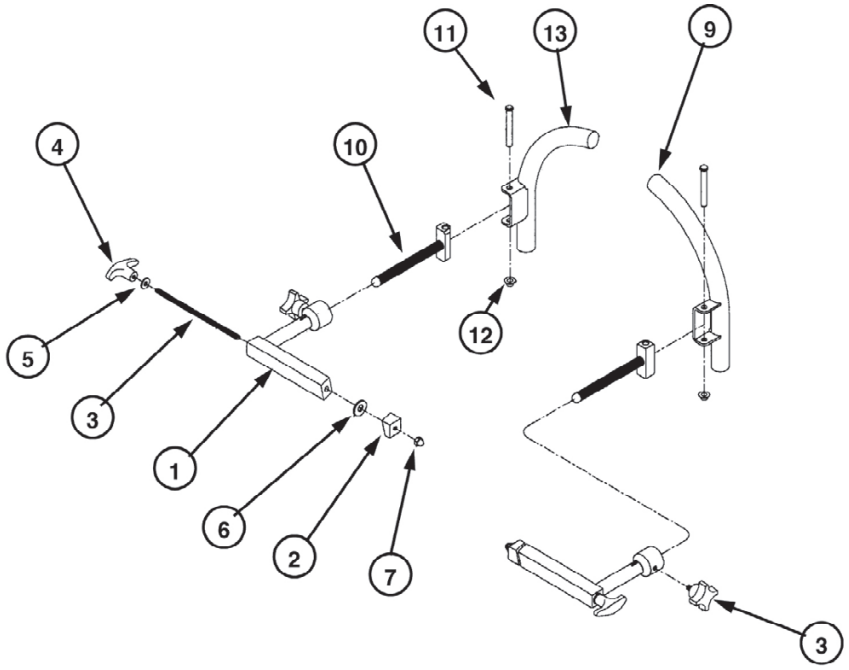


FIGURE 7-16. WRIST REST ASSEMBLY, EYE, DUAL LATERAL

FIGURE 7-16. WRIST REST ASSEMBLY, EYE, DUAL LATERAL

Item No.	Part No.			SVC	Description	Units Per Assembly					
	P	**SA0785**	**00**		**WRIST REST ASSEMBLY, EYE, DUAL LATERAL**	**X**					
	P	075142			ASSEMBLY, Sub-, Full Wrist Rest	1					
1	P	075135			• WELDMENT, Wrist Rest Support	1					
2	P	075138			• BAR, Wrist Rest Mounting	1					
3	P	075141			• SCREW, Wrist Rest Knob	1					
4	P	055215			• KNOB, T-Handle	1					
5	P	031364			• WASHER, Flat	1					
6	P	065688			• WASHER, Nylon, 5/16” I.D. x 3/4” O.D. x 1/16” Thick	1					
7	P	031507			• 1/4-20 Acorn Nut	1					
8	P	066738			• STUD, Knob With 1/4-20 x 1/2” Long	1					
	P	075144			ASSEMBLY, Sub-, Right Wrist Rest	1					
	P	075143			ASSEMBLY, Sub-, Left Wrist Rest	1					
9	P	069420			• ASSEMBLY, Left Wrist Rest	1					
10	P	066740			• ASSEMBLY, Short Hinge Bar	2					
11	P	076959			• PIN, Clevis, 5/16	2					
12	P	031444			• 5/16 Pal Nut	2					
13	P	069421			• ASSEMBLY, Right Wrist Rest Tube	1					

FIGURE 7-17. WRIST REST ASSEMBLY, EYE, OVER BROW

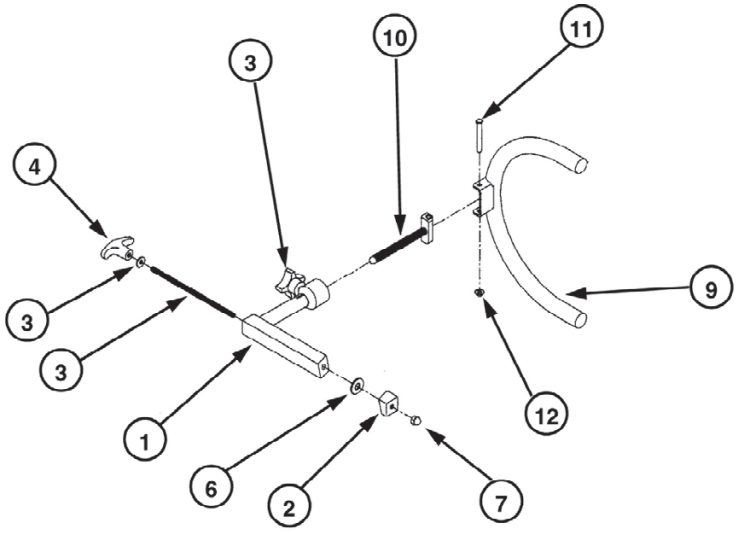


FIGURE 7-17. WRIST REST ASSEMBLY, EYE, OVER BROW

FIGURE 7-17. WRIST REST ASSEMBLY, EYE, OVER BROW

Item No.	Part No.			SVC	Description	Units Per Assembly					
	P	**SA0786**	**00**		**WRIST REST ASSEMBLY, EYE, OVER BROW**	**X**					
	P	075142			ASSEMBLY, Wrist Rest Support	2					
1	P	075135			• WELDMENT, Wrist Rest Support	2					
2	P	075138			• BAR, Wrist Rest Mounting	2					
3	P	075141			• SCREW, Wrist Rest Knob	2					
4	P	055215			• KNOB, T-Handle	2					
5	P	031364			• WASHER, Flat	2					
6	P	065688			• WASHER, Nylon, 5/16” I.D. x 3/4” O.D. x 1/16” Thick	2					
7	P	031507			• NUT, Acorn, 1/4-20	2					
8	P	066738			• STUD, Knob With 1/4-20 x 1/2” Long	2					
	P	075151			ASSEMBLY, Sub-, Full Wrist Rest	1					
9	P	075959			• ASSEMBLY, Full “U” Wrist Rest	1					
10	P	066740			• ASSEMBLY, Short Hinge Bar	1					
11	P	065959			• PIN, Clevis, 5/16”	1					
12	P	031444			• 5/16 Pal Nut	1					

FIGURE 7-18. I.V. ROD ASSEMBLY, EYE TOPS BUILT PRIOR TO 1.1.98; BETWEEN 6.1.98 AND 10.1.98

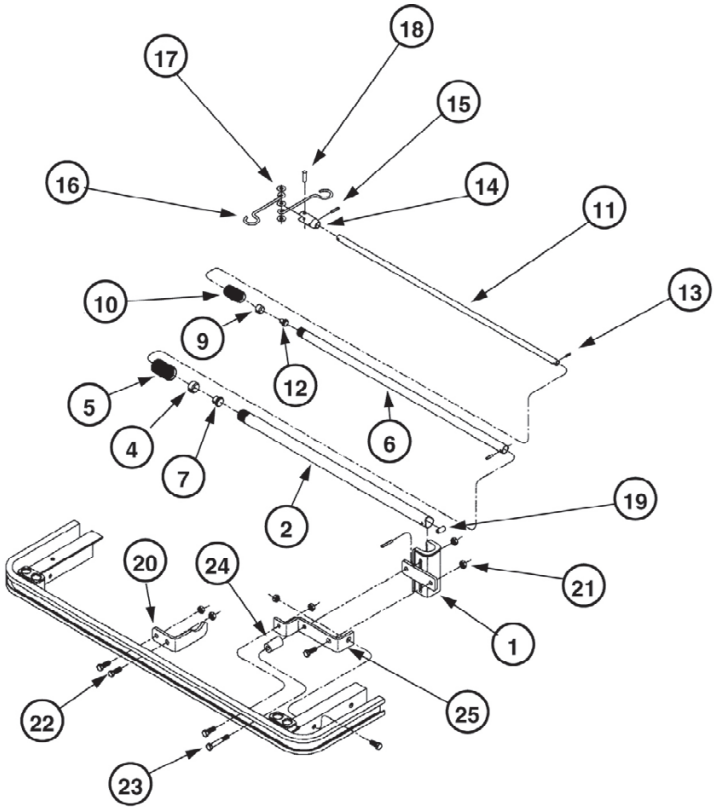


FIGURE 7-18. I.V. ROD ASSEMBLY, EYE TOPS BUILT PRIOR TO 1.1.98; BETWEEN 6.1.98 AND 10.1.98

FIGURE 7-19. I.V. ROD ASSEMBLY, EYE TOPS BUILT PRIOR TO 1.1.98 AND 6.1.98; BETWEEN 6.1.98 AND 10.1.98

Item No.	Part No.			SVC	Description	Units Per Assembly					
	P	**066EYE**			**EYE I.V. ROD ASSEMBLY, TOPS PRIOR TO 1.1.98, MOUNTS ON OUTSIDE OF TOP (TOP CHANNEL LENGTH: 63.00")**	**X**					
	P	**066019**			**EYE I.V. ROD ASSEMBLY, TOPS BETWEEN 6.1.98 & 10.1.98 (TOP CHANNEL LENGTH: 65.63")**	**X**					
	P	**075345**			**EYE I.V. ROD ASSEMBLY, TOPS PRIOR TO 6.1.98 (TOP CHANNEL LENGTH: 64.50")**	**X**					
1	P	066002			CASTING, I.V. Rod Hinge	1					
2	P	066012			TUBE, Outside	1					
3	P	031438			PIN, Spring, 3/16" x 1-1/4"	1					
4	P	066014			BUSHING, Large Screw Collar Squeeze	1					
5	P	066013			COLLAR, Large Screw	1					
6	P	066016			TUBE, Slide	1					
7	P	066015			GLIDE, Outside Cap	1					
8	P	031314			PIN, Spring, 3/16" x 3/4	1					
9	P	030209			SCREW, Collar Squeeze Bushing	1					
10	P	030207			SCREW, Collar	1					
11	P	066017			TUBE, Small Slide	1					
12	P	030176			GLIDE, Inside Cap	1					
13	P	065605			PIN, Spring, 1/8" x 1/2	1					
14	P	062328			CAP, Top Ear	1					
15	P	031110			PIN, Spring, 3/16" x 7/8	1					
16	P	062327			HOOK, Bag	2					
17	P	031100			WASHER, Nylon, 5/16" I.D. x 3/4" O.D.	3					
18	P	062329			RIVET, Tubular	1					
19	P	066734			SPACER, I.V. Rod Pin	1					
20	P	075349			BRACKET, I.V. Rod Support	1					
21	P	031055			NUT, Lock,1/4-20	6					
22	P	068786			SCREW, Hex Head Cap, 1/4-20 x 5/8" Long	5					
23	P	035122			SCREW, Hex Head Cap, 1/4-20 x 1-5/8" Long	1					
24	P	013111			SPACER	1					
25	P	075239			BRACKET, I.V. Rod Mounting	1					

FIGURE 7-20. I.V. ROD ASSEMBLY, EYE TOPS BUILT BETWEEN 10.1.98 AND 3.5.03

IMPORTANT NOTE:

I.V. rod is shown mounted on patient's right, which is standard. I.V. rod can be mounted on the patient's left. by bolting it to the opposite side angle.

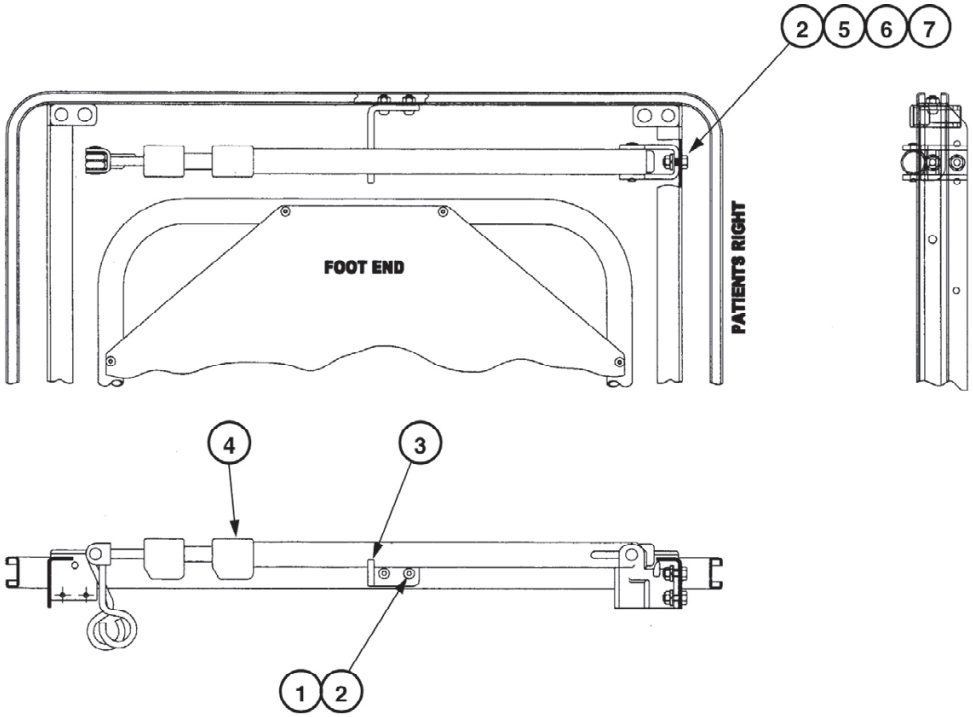


FIGURE 7-20. I.V. ROD ASSEMBLY, EYE TOPS BUILT BETWEEN 10.1.98 AND 3.5.03

FIGURE 7-20. I.V. ROD ASSEMBLY, EYE TOPS BUILT BETWEEN 10.1.98 AND 3.5.03

Item No.	Part No.			SVC	Description	Units Per Assembly					
	P	**066EY0**	**00**		**EYE I.V. ROD ASSEMBLY, TOPS (AFTER 10.1.98)**	**X**					
1	P	062038			SCREW, Hex Head Cap, 1/4-20 x 5/8” Long	2					
2	P	031055			NUT, Lock,1/4-20	4					
3	P	075569			BRACKET, I.V. Rod Support	1					
4	P	075545			ASSEMBLY, Trigger Style I.V. Rod	1					
5	P	031137			SCREW, Hex Head Cap, 1/4-20 x 3/4” Long	2					
6	P	031364			WASHER, Flat, 1/4”	2					
7	P	030923			WASHER, Lock, 3/8”	2					

FIGURE 7-21. I.V. ROD ASSEMBLY, EYE TOPS BUILT AFTER 3.5.03

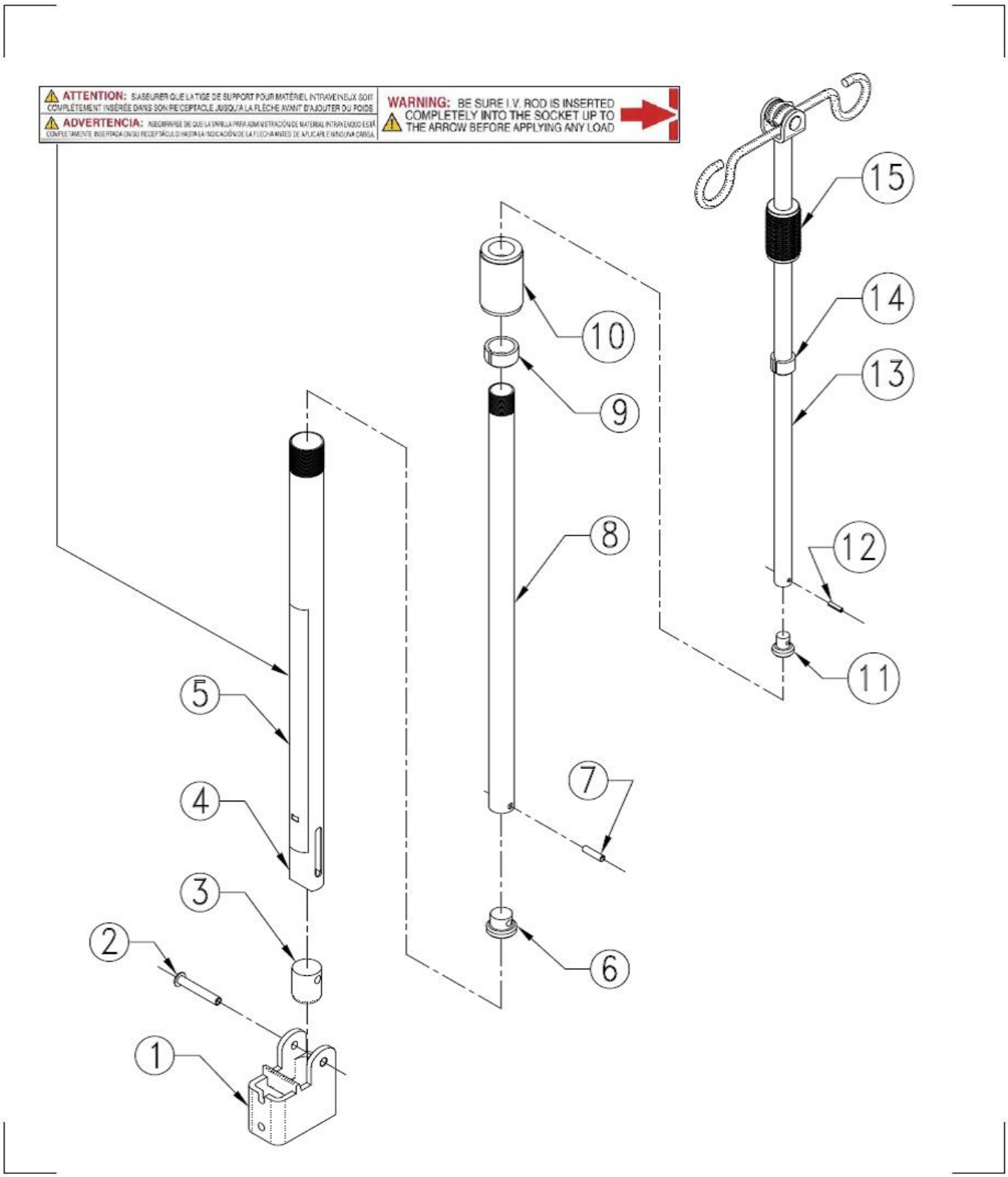

ATTENTION: S'ASSURER QUE LA TIGE DE SUPPORT POUR MATÉRIEL INTRAVEINEUX SOIT COMPLÈTEMENT INSÉRÉE DANS SON RÉCEPTACLE JUSQU'À LA FLÈCHE AVANT D'AJOUTER DU POIDS
ADVERTENCIA: ASEGÚRESE DE QUE LA VARILLA PARA ADMINISTRACIÓN DE MATERIAL INTRAVENOSO ESTÉ COMPLETAMENTE INSERTADA EN SU RECEPTÁCULO HASTA LA INDICACIÓN DE LA FLECHA ANTES DE APLICAR EL PESO A UNA CARGA
WARNING: BE SURE I.V. ROD IS INSERTED COMPLETELY INTO THE SOCKET UP TO THE ARROW BEFORE APPLYING ANY LOAD
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1

FIGURE 7-21. I.V. ROD ASSEMBLY, EYE TOPS BUILT AFTER 3.5.03

FIGURE 7-21. I.V. ROD ASSEMBLY, EYE TOPS BUILT AFTER 3.5.03

Item No.	Part No.	SVC	Description	Units Per Ass'y		
1	075565		Casting, I.V. Rod Hinge	1		
2	075577		Rivet, 1/4" X 1 9/16	1		
3	075566		Plug, I.V. Rod Bottom	1		
4	056397-874		Tube, Outside	1		
5	075593		Label, Warning	1		
6	066015		Glide, Outside Cap	1		
7	031314		Spring Pin, 3/16 X 3/4	1		
8	056397-875		Tube, Large Slide	1		
9	066014		Bushing, Large Screw Collar Squeeze	1		
10	066013		Collar, Large Screw	1		
11	030176		Glide, Inside Cap	1		
12	065605		Spring Pin 1/8 X 1/2	1		
13	056397-876		Sub-ASSY, S.S. Bag Hook	1		
14	030209		Bushing, Screw Collar Squeeze	1		
15	030207		Collar, Screw	1		

FIGURE 7-22. FIFTH WHEEL SUB-ASSEMBLY, ELECTRIC BASE (PART 1 OF 3)

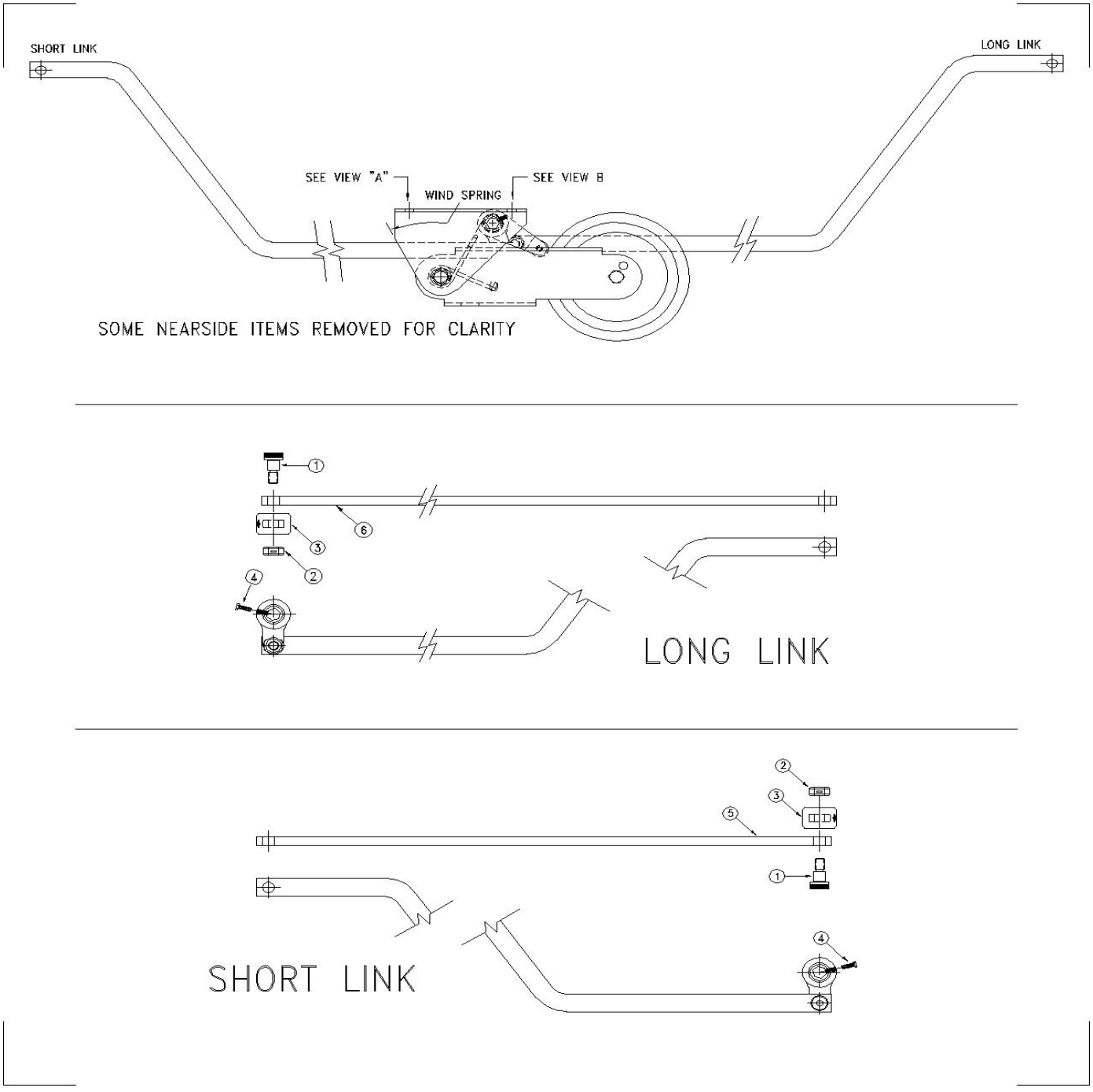


FIGURE 7-22. FIFTH WHEEL SUB-ASSEMBLY, ELECTRIC BASE (PART 1 OF 3)

FIGURE 7-22. FIFTH WHEEL SUB-ASSEMBLY, ELECTRIC BASE (PART 2 OF 3)

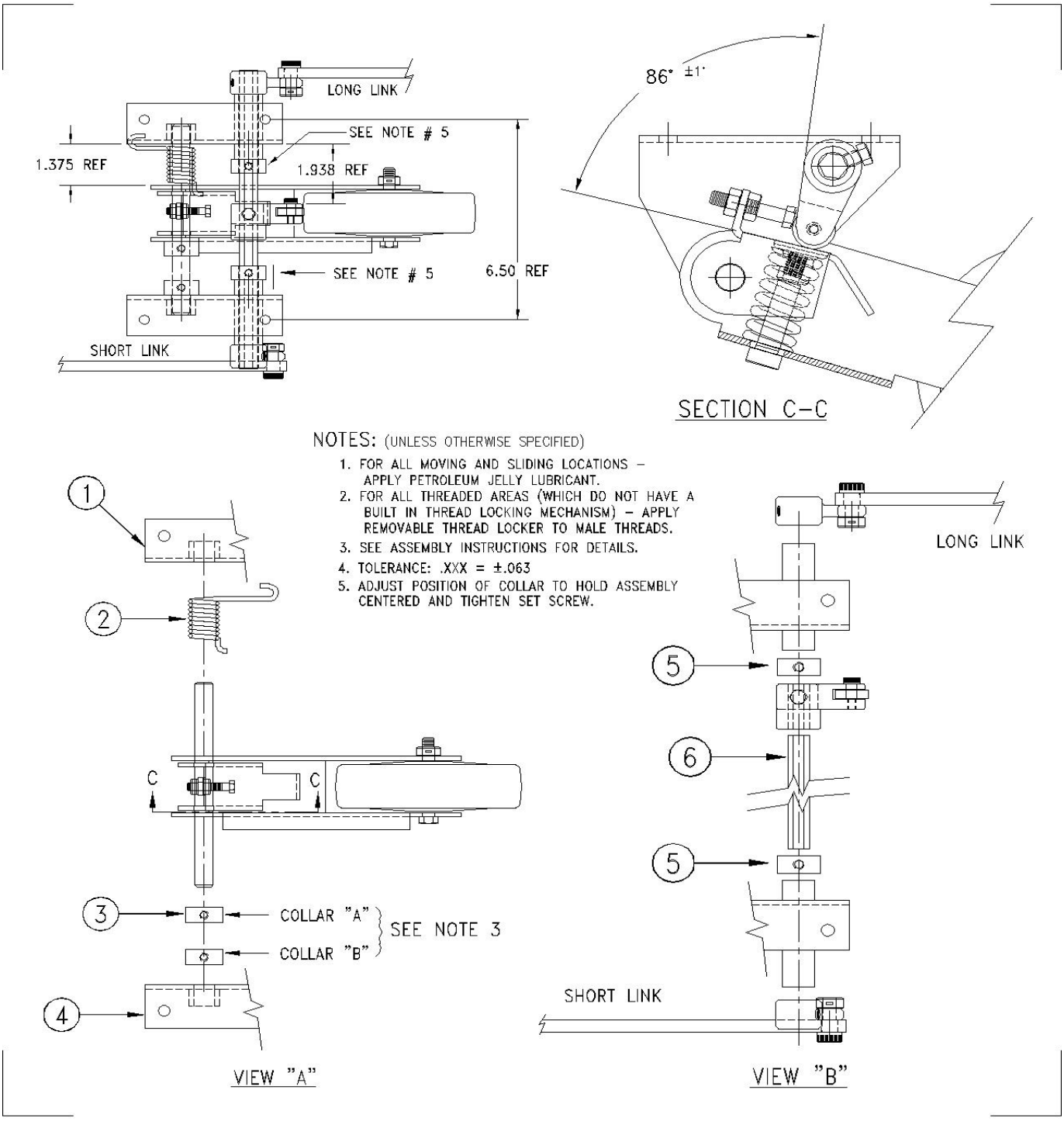


FIGURE 7-22. FIFTH WHEEL SUB-ASSEMBLY, ELECTRIC BASE (PART 2 OF 3)

FIGURE 7-22. FIFTH WHEEL SUB-ASSEMBLY, ELECTRIC BASE (PART 3 OF 3)

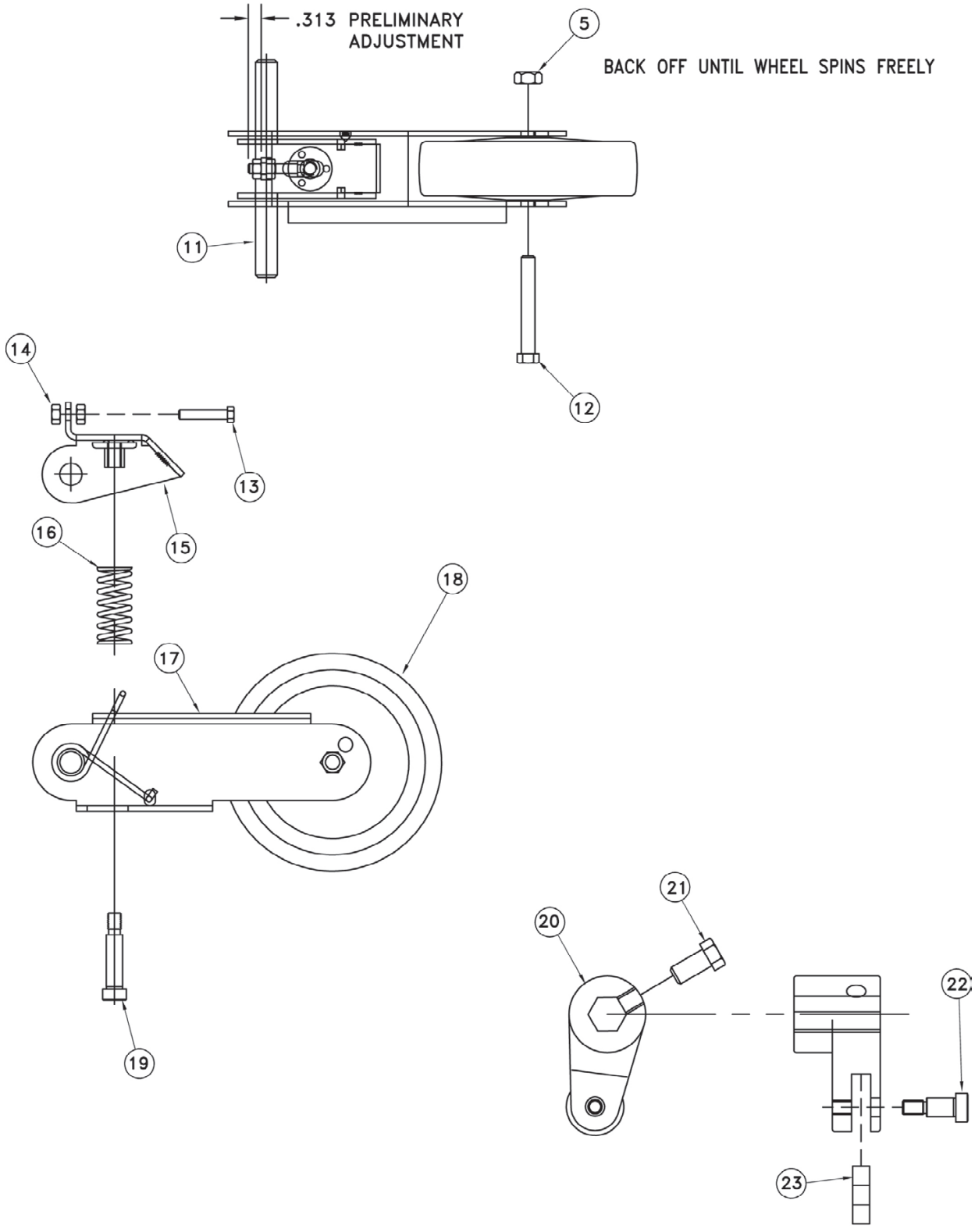


FIGURE 7-22. FIFTH WHEEL SUB-ASSEMBLY, ELECTRIC BASE (PART 3 OF 3)

FIGURE 7-22. FIFTH WHEEL SUB-ASSEMBLY, ELECTRIC BASE (AFTER 7.1.13)

Item No.	Part No.	SVC	Description	Units Per Ass'y		
	080468		Fifth Wheel Sub-Assembly, Electric Base	X		
	FIG. 7-22 Part 1 of 3					
1	062684		Cam	2		
2	150830-756		5/16 - 18 Lock Nut	2		
3	065807		Bolt, Shoulder 3/8 X 3/8	2		
4	080086		M6-1 X 10 Hex Cap Screw GR8.8 Zinc	2		
5	080460		Link, Short Electric	1		
6	080459		Link, Long Electric	1		
	FIG. 7-22 Part 2 of 3					
1	080464		Weldment, Mounting Bracket - LH	1		
2	075771		Spring, Torsion	1		
3	011422		Collar	2		
4	080463		Weldment, Mounting Bracket - RH	1		
5	068338		Collar	2		
6	080434		Rod, 10 1/2" Hex	1		
	FIG. 7-22 Part 3 of 3					
5	150830-756		Nut, Lock 5/16" - 18	1		
11	076108		Rod, Pivet	1		
12	031334		5/16" - 18 X 2 Hex Head Cap Screw	1		
13	076191		1/4 - 20 X 1.25 HHCS	1		
14	031054		1/4 - 20 Nut	2		
15	056397-854		Weldment, Upper Bracket	1		
16	056397-849		Spring	1		
17	075772		Bracket, Wheel	1		
18	075785		5" Wheel	1		
19	150830-343		Shoulder Bolt	1		
20	075782		Cam, Auto Track	1		
21	031004		1/4 - 20 X 1/2 LG. HHCS	1		
22	075794		Bolt, Shoulder 1/4 X 3/8	1		
23	150830-423		Roller	1		

FIGURE 7-23. FIFTH WHEEL SUB-ASSEMBLY, HYDRAULIC BASE/ELECTRIC BASE (PART 1 OF 3)

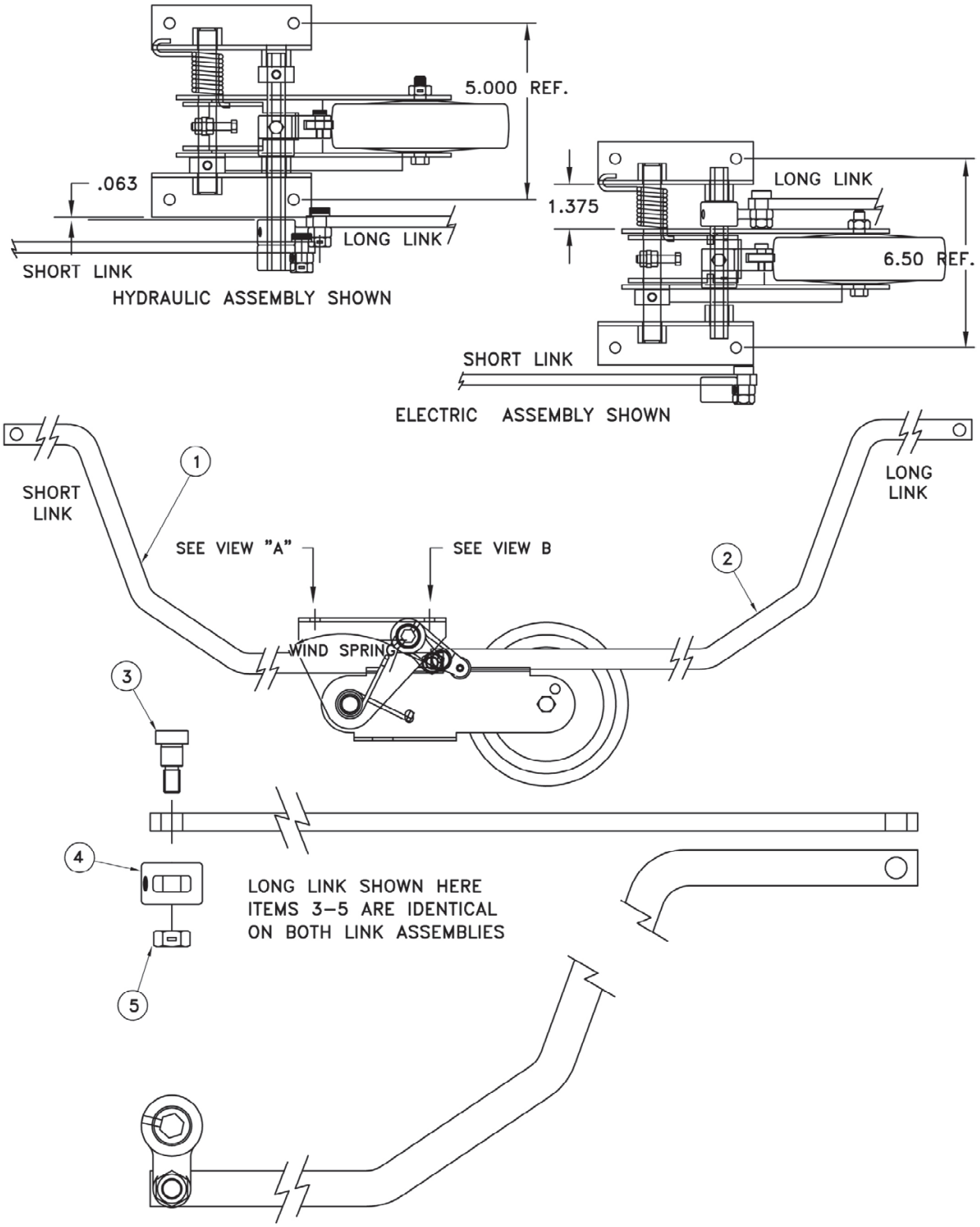


FIGURE 7-23. FIFTH WHEEL SUB-ASSEMBLY, HYDRAULIC BASE/ELECTRIC BASE (PART 1 OF 3)

FIGURE 7-23. FIFTH WHEEL SUB-ASSEMBLY, HYDRAULIC BASE/ELECTRIC BASE (PART 2 OF 3)

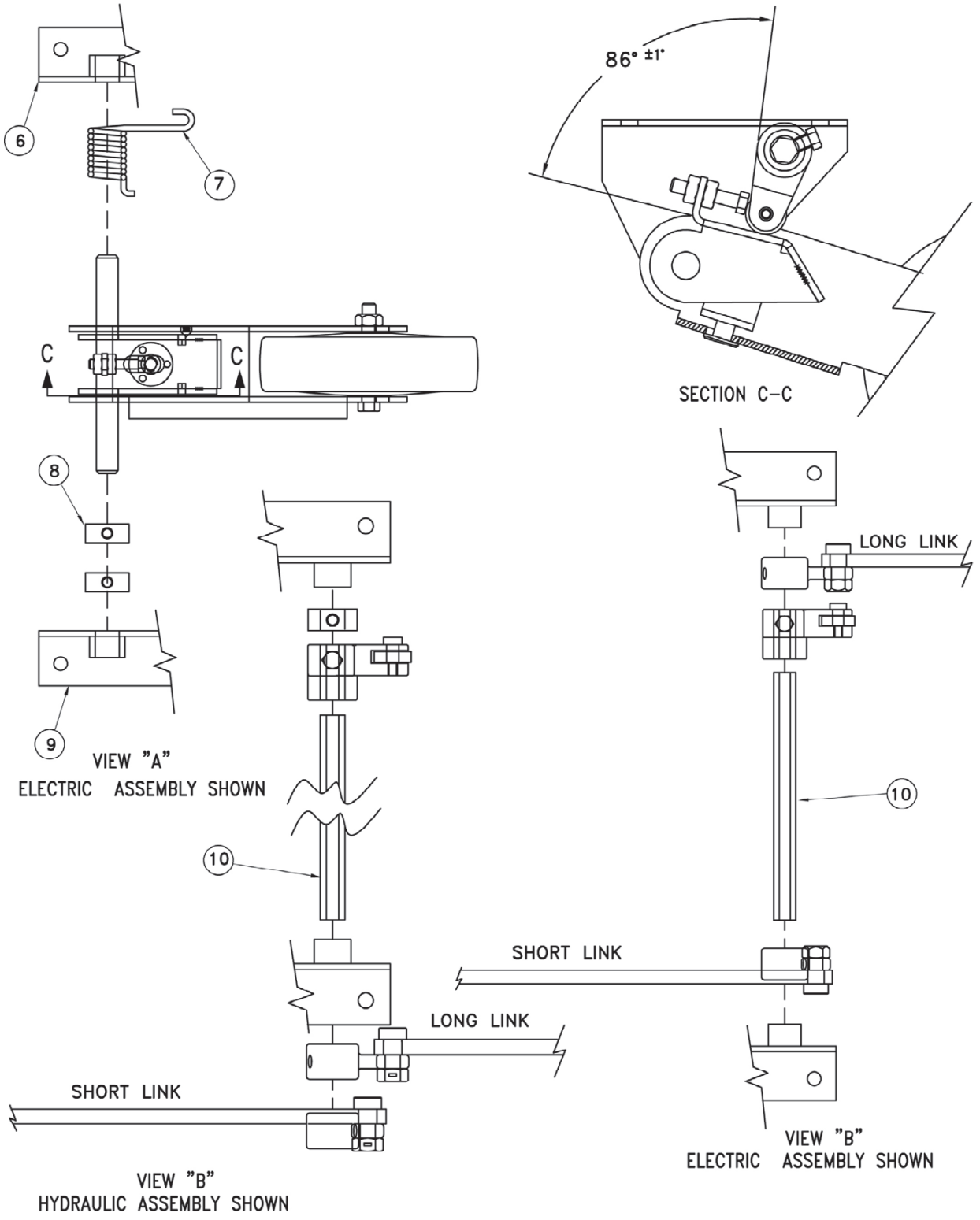


FIGURE 7-23. FIFTH WHEEL SUB-ASSEMBLY, HYDRAULIC BASE/ELECTRIC BASE (PART 2 OF 3)

FIGURE 7-23. FIFTH WHEEL SUB-ASSEMBLY, HYDRAULIC BASE/ELECTRIC BASE (PART 3 OF 3)

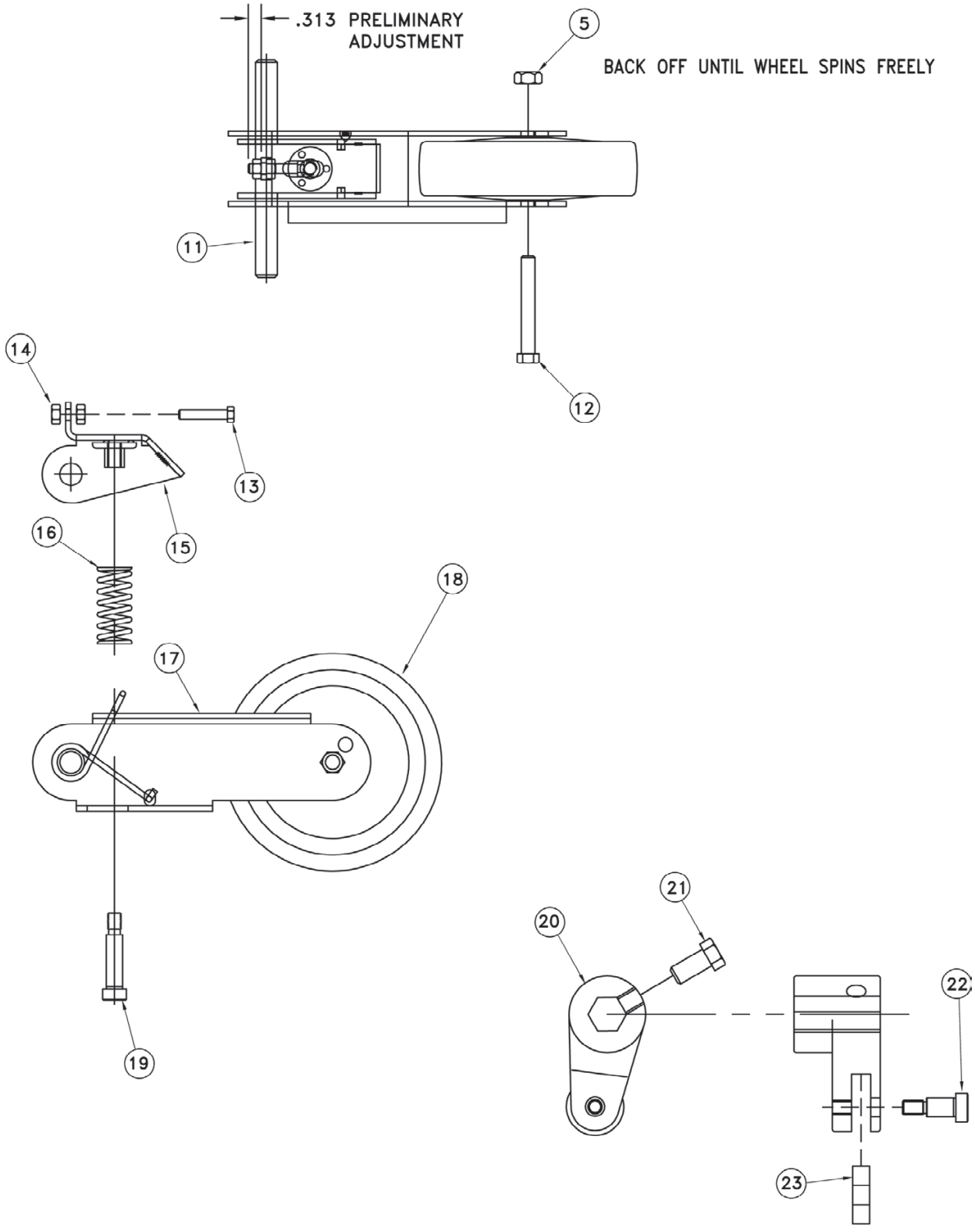


FIGURE 7-23. FIFTH WHEEL SUB-ASSEMBLY, HYDRAULIC BASE/ELECTRIC BASE (PART 3 OF 3)

FIGURE 7-23. FIFTH WHEEL SUB-ASSEMBLY, HYDRAULIC BASE/ELECTRIC BASE

Item No.	Part No.			SVC	Description	Units Per Assembly					
		076103			FIFTH WHEEL SUB-ASSEMBLY, HYDRAULIC BASE	X					
		075799			FIFTH WHEEL SUB-ASSEMBLY, ELECTRIC BASE		X				
1		076107			LINK, Short	1	1				
2		075783			LINK, Long	1	1				
3		065807			BOLT, Shoulder, 3/8” x 3/8”	2	2				
4		062684			CAM	2	2				
5	P	150830	756		NUT, Lock, 5/16”-18	4	4				
6		075775			WELDMENT, Mounting Bracket, Left Hand	1	1				
7		075771			SPRING, Torsion	1	1				
8		011422			COLLAR	2	2				
9		075776			WELDMENT, Mounting Bracket, Right Hand	1	1				
10		076106			ROD, Hex	1					
11		075781			ROD, Hex		1				
12		075780			ROD, Pivot	1					
13		076108			ROD, Pivot		1				
14		031334			SCREW, Hex Head Cap, 5/17-18 x 2” Long	1	1				
15		076191			SCREW, Hex Head Cap, 1/4-20 x 1-1/4” Long	1	1				
16		031054			NUT, 1/4-20	2	2				
17	P	056397	854		WELDMENT, Upper Bracket	1	1				
18	P	056397	849		SPRING, Torsion	1	1				
19		075772			BRACKET, Wheel	1	1				
20		075785			WHEEL, 5”	1	1				
21	P	150830	343		BOLT, Shoulder	1	1				
22		075782			CAM, Auto Track	1	1				
23		031004			SCREW, Hex Head Cap, 1/4-20 x 1/2” Long	1	1				
24		075794			BOLT, Shoulder, 1/4” x 3/8”	1	1				
25	P	150830	423		ROLLER	1	1				

FIGURE 7-24. FIFTH WHEEL SUB-ASSEMBLY, ELECTRIC BASE (AFTER 7.1.13)

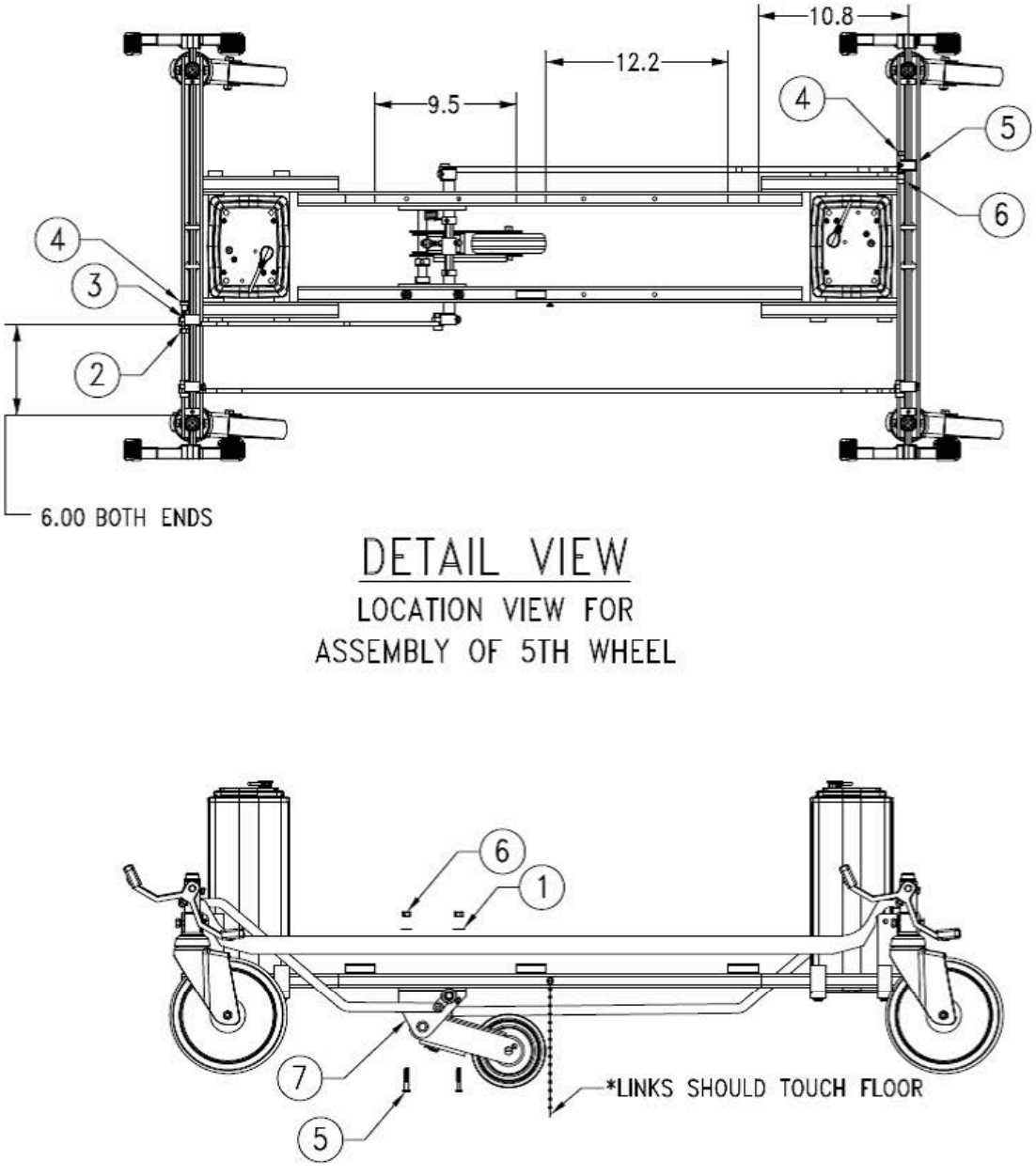
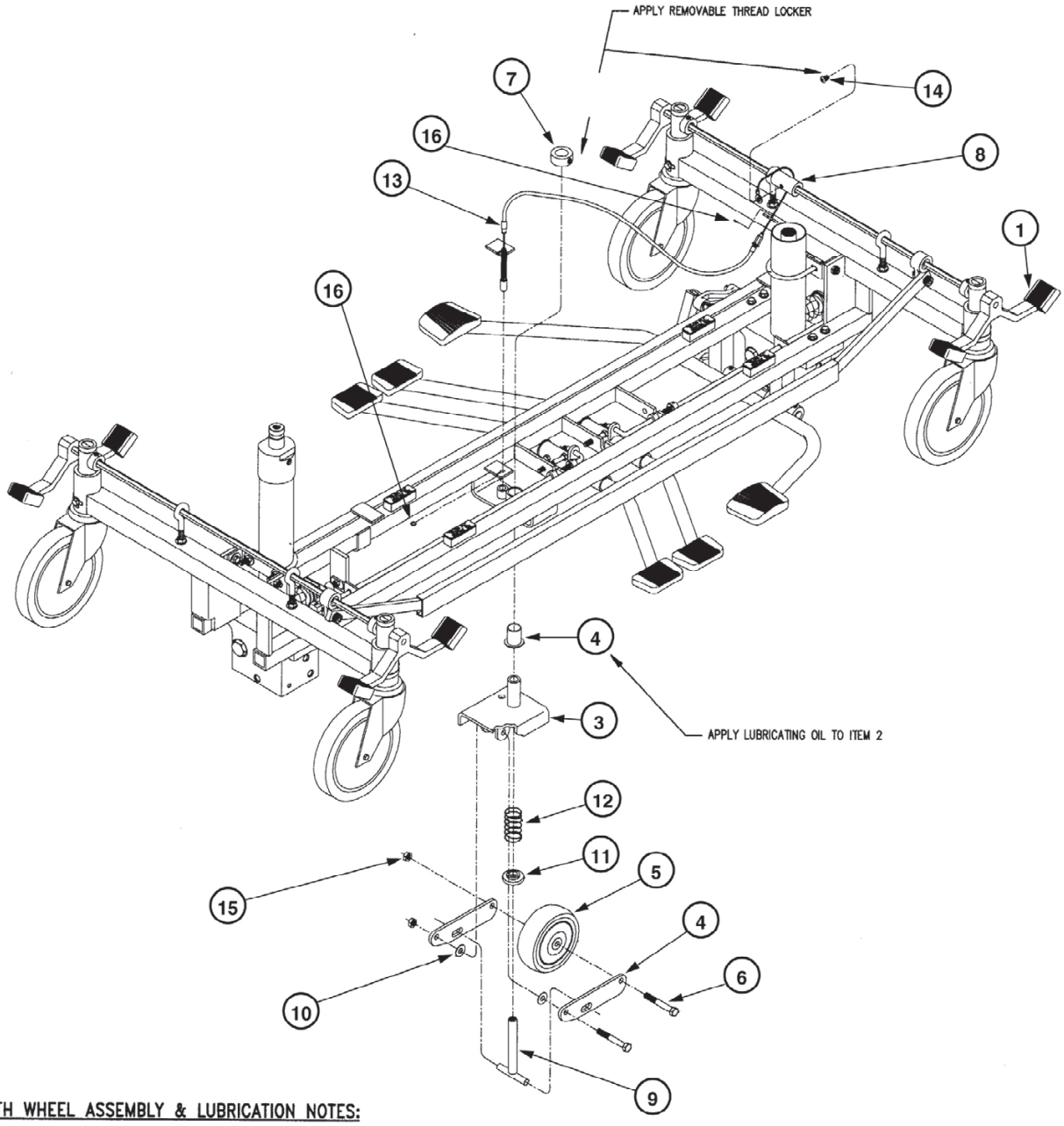


FIGURE 7-24. FIFTH WHEEL SUB-ASSEMBLY, ELECTRIC BASE (AFTER 7.1.13)

FIGURE 7-24. FIFTH WHEEL SUB-ASSEMBLY, ELECTRIC BASE (AFTER 7.1.13)

Item No.	Part No.	SVC	Description	Units Per Ass'y		
1	031076		1/4 Flat Washer	4		
2	150830-756		5/16 Lock Out	2		
3	062684		Cam	2		
4	065807		3/8 X 3/8 Shoulder Bolt	2		
5	031006		1/4 - 20 X 1 1/2 Hex HD Cap Screw	4		
6	031055		1/4 - 20 Lock Nut	4		
7	080468		5th Wheel Sub- Asembly, Electric	1		

FIGURE 7-25. FIFTH WHEEL SUB-ASSEMBLY, ELECTRIC BASE (AFTER 9.1.99, BEFORE 7.1.13)



5TH WHEEL ASSEMBLY & LUBRICATION NOTES:

1. INSPECT AND CHECK FIT INSIDE OF TUBE OF ITEM 3 (SWIVEL BRACKET ASS'Y) USING ITEM 9 (SPRING STOP ASS'Y) IT MUST SLIDE FREELY.
2. APPLY A THIN COAT OF VALVOLINE #633 MOLY GREASE (OR EQIVALENT) TO THE INSIDE OF THE TUBE OF ITEM 3 (SWIVEL BRACKET ASS'Y), THE UPPER ROD OF ITEM 9 (SPRING STOP ASS'Y) AND THE SLOT AREA OF ITEM 4 (5TH WHEEL HINGE PLATES).
3. TIGHTEN ITEM 6 (5/16 X 2 1/4 PIVOT BOLT) TO ELIMINATE ALL SIDE TO SIDE MOVEMENT, BUT STILL ALLOWING ITEM 4 (5TH WHEEL HINGE PLATES) TO PIVOT FREELY. TIGHTEN ITEM 6 (5/16 X 2 1/4 CASTER BOLT), CHECK TO MAKE SURE WHEEL SPINS FREELY.

FIGURE 7-18. FIFTH WHEEL SUB-ASSEMBLY, ELECTRIC BASE (AFTER 9.1.99)

FIGURE 7-25. FIFTH WHEEL SUB-ASSEMBLY, ELECTRIC BASE (AFTER 9.1.99, BEFORE 7.1.13)

Item No.	Part No.			SVC	Description	Units Per Assembly					
	P	**068516**	**00**		**FIFTH WHEEL ASSEMBLY, AFTER 9.1.99**	**X**					
1	P				ASSEMBLY, Horizon Base	1					
2	P	051308			NYLINER, Flange, 3/4" X 1-1/8"	1					
3	P	068360			ASSEMBLY, Swivel Bracket	1					
4	P	068429			PLATE, 5th Wheel Hinge	2					
5	P	068415			WHEEL, 4"	1					
6	P	068543			SCREW, Hex Head Cap, 5/17-18 x 2" Long	2					
7	P	068464			COLLAR	1					
8	P	068373			TUBE, Cam	1					
9	P	068540			ASSEMBLY, Spring Stop	1					
10	P	065688			WASHER, Nylon, 5/16"	2					
11	P	068416			SPACER	1					
12	P	068173			SPRING, Wheel, 5th	1					
13	P	068430			ASSEMBLY, 5th Wheel Cable	1					
14	P	068544			SCREW, Button Head Socket, 1/4-20 x 3/8" Long	1					
15	P	031057			NUT, Lock, 5/17-18	2					
16	P	062640			RING, Retaining	2					

APPENDIX 8

8.1 GUIDANCE AND MANUFACTURER'S DECLARATION — ELECTROMAGNETIC EMISSIONS

The Hausted A.P.C. Series Models and Surgi-Chairs are intended for use in the electromagnetic environment specified below. The customer or the user of the Hausted A.P.C. Series Models and Surgi-Chairs should assure that it is used in such an environment.		
Emissions Test	Compliance	Electromagnetic Environment - Guidance
RF emissions CISPR 11	Group 1	The Hausted A.P.C. Series Models and Surgi-Chairs uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. The Hausted A.P.C. Series Models and Surgi-Chairs are suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
RF emissions CISPR 11	Class A	
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/flicker emissions IEC 61000-3-3	Complies	

APPENDIX 8

8.2 GUIDANCE AND MANUFACTURER'S DECLARATION — ELECTROMAGNETIC IMMUNITY

The Hausted A.P.C. Series Models and Surgi-Chairs are intended for use in the electromagnetic environment specified below. The customer or the user of the Hausted A.P.C. Series Models and Surgi-Chairs should assure that it is used in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
Electrostatic Discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. if floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/ burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/ output lines	±2 kV for power supply lines ±1 kV for input/ out-put lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV line(s) to line(s) ±2 kV line(s) to earth	±1 kV line(s) to line(s) ±2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5 % U_T (>95 % dip in U_T) for 0,5 cycle 40 % U_T (60 % dip in U_T) for 5 cycles 70 % U_T (30 % dip in U_T) for 25 cycles <5 % U_T (> 95% dip in U_T) for 5 sec	<5 % U_T (>95 % dip in U_T) for 0,5 cycle 40 % U_T (60 % dip in U_T) for 5 cycles 70 % U_T (30 % dip in U_T) for 25 cycles <5 % U_T (> 95% dip in U_T) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Hausted A.P.C. Series Models and Surgi-Chairs require continued operation during power mains interruptions, it is recommended that the Hausted A.P.C. Series Models and Surgi-Chairs be powered from an uninterrupted power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A / m	3 A / m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE: U_T is the a.c. mains voltage prior to application of the test level.

APPENDIX 8

8.3 GUIDANCE AND MANUFACTURER'S DECLARATION — ELECTROMAGNETIC IMMUNITY

The Hausted A.P.C. Series Models and Surgi-Chairs are intended for use in the electromagnetic environment specified below. The customer or the user of the Hausted A.P.C. Series Models and Surgi-Chairs should assure that it is used in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
			Portable and mobile RF communications equipment should be used no closer to any part of the Hausted A.P.C. Series Models and Surgi-Chairs, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80MHz	3 vrms	$d = 1.2\sqrt{P}$ $d = 1.2\sqrt{P}$ 80 MHz to 800 MHz
Radiated RF IEC61000-4-3	3 V/m 80 MHz to 2,5 GHz	3 V/m	$d = 2.3\sqrt{P}$ 800 MHz to 2,5 gHz where P is the maximum output power rating of the transmitter in watts (w) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, [a] should be less than the compliance level in each frequency range. [b] Interference may occur in the vicinity of equipment marked with the following symbol:

NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

[a] Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and tV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Hausted A.P.C. Series Models and Surgi-Chairs are used exceeds the applicable RF compliance level above, the Hausted A.P.C. Series Models and Surgi-Chairs should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocation the Hausted A.P.C. Series Models and Surgi-Chairs.

[b] Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m

APPENDIX 8

8.4 RECOMMENDED SEPARATION DISTANCES BETWEEN PORTABLE AND MOBILE RF COMMUNICATIONS EQUIPMENT AND HAUSTED A.P.C. SERIES MODELS AND SURGI-CHAIRS

The Hausted A.P.C. Series Models and Surgi-Chairs are intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Hausted A.P.C. Series Models and Surgi-Chairs can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Hausted A.P.C. Series Models and Surgi-Chairs as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter M		
	150 kHz to 80 MHz $d = 1.2\sqrt{P}$	80 MHz to 800 MHz $d = 1.2\sqrt{P}$	800 MHz to 2,5 GHz $d = 2.3\sqrt{P}$
0,01	0.12	0.12	0.23
0,1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (w) according to the transmitter manufacturer.

NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

GF HEALTH PRODUCTS, INC. LIMITED WARRANTY FOR HAUSTED® BRAND PRODUCT LINE WITHIN THE U.S.

SCOPE OF WARRANTY

GF Health Products, Inc. ("GF") warrants to the original purchaser only that it will replace or repair components, at GF's sole discretion, that are defective in material or workmanship under normal use and service. All warranties are conditioned upon the proper use of the products strictly in accordance with good commercial practice and applicable GF instructions and manuals, including proper use and maintenance. To the extent that a component is warranted by a third party, GF conveys all of its rights under that warranty to the original purchaser, to the extent permitted.

This limited warranty shall only apply to defects that are reported to GF's customer service team within the applicable warranty period and which, upon examination by GF or its authorized representative, prove to be a warranty item. This limited warranty is not transferable.

The warranted components and time period are set forth below:

COMPONENT	PARTS WARRANTY	LABOR WARRANTY
Frame	5 years	5 years
Hydraulics	1 year	1 year
Casters	1 year	1 year
Pneumatic gas springs	1 year	1 year
Pads and mattresses	1 year	1 year
Patient weighing system	1 year	1 year
Electrical components	1 year	1 year
Optional accessories	1 year	1 year
Replacement parts *	90 days	

** The warranty period is as designated above. If a part is replaced under warranty, the original warranty period will not be affected. All other replacement parts will be subject to the warranty period specified.*

The applicable warranty period shall commence from date of shipment to the original customer, unless there is an expiration date on the component in which case the warranty shall expire on the earlier of warranty period or the expiration date.

OBTAINING WARRANTY SERVICE

A GF Customer Service Representative must authorize warranty service. Please contact the GF Customer Service department by calling 678.291.3207, sending a fax request to 770.368.2386 or by e-mailing a request to cs@grahamfield.com. Specific directions will be provided by the Customer Service Representative. Failure to abide by the specific directions will result in denial of the warranty claim.

EXCLUSIONS

The warranty does not cover and GF shall not be liable for the following:

1) Defects, damage, or other conditions caused, in whole or in part, by misuse, abuse, negligence, alteration, accident, freight damage, tampering or failure to seek and obtain repair or replacement in a timely manner;
2) Products which are not installed, used, or properly cleaned and maintained as required in the official manual for the applicable product;
3) Products considered to be of a consumable nature including, but not limited to: filters, fuses, gaskets, lubricants, and charts;
4) Accessories or parts not provided by GF;
5) Charges by anyone for adjustments, repairs, replacement parts, installation or other work performed upon or in connection with such products which are not expressly authorized in writing, in advance, by GF;
6) Any shipping charges incurred in the replacement part installation or repair;
7) Costs and expenses of regular maintenance and cleaning; and
8) Representations and warranties made by any person or entity other than GF.

ENTIRE WARRANTY, EXCLUSIVE REMEDY AND CONSEQUENTIAL DAMAGES DISCLAIMER

THIS WARRANTY IS GF'S ONLY WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. GF MAKES NO IMPLIED WARRANTIES OF ANY KIND INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IF ANY MODEL OR SAMPLE WAS SHOWN TO THE CUSTOMER, SUCH MODEL OR SAMPLE WAS USED MERELY TO ILLUSTRATE THE GENERAL TYPE AND QUALITY OF THE PRODUCT AND NOT TO REPRESENT THAT THE PRODUCT WOULD NECESSARILY CONFORM TO THE MODEL OR SAMPLE IN ALL RESPECTS.

THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE DEFECTIVE PARTS. GF SHALL NOT BE LIABLE FOR AND HEREBY DISCLAIMS ANY DIRECT, SPECIAL, INDIRECT, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO: DAMAGES FOR LOSS OF PROFITS OR INCOME, LOSS OF USE, DOWNTIME, COVER, OR EMPLOYEE OR INDEPENDENT CONTRACTOR WAGES, PAYMENTS AND BENEFITS.

The warranties contained herein contain all the representations and warranties with respect to the subject matter of this document, and supersede all prior negotiations, agreements and understandings with respect thereto. The recipient of this document hereby acknowledges and represents that it has not relied on any representation, assertion, guarantee, warranty, collateral contract or other assurance, except those set out in this document.

For additional information on this Hausted product or this warranty, please contact a GF Customer Service Representative.

NOTES:

1) Additional terms and conditions may apply.
2) Freight claims must be notated on the Bill of Lading and must be made with immediacy. The ICC regulations govern specific requirements for freight claims. Failure to abide by those regulations may result in a denial of the freight claim. GF will assist you in filing the freight claim.
3) Claims for any short shipment must be made within thirty (30) days of the invoice date.

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DISPOSAL AND KEY TO SYMBOLS 10

DISPOSAL

Hausted equipment and accessories can be disposed of.

We recommend disassembling and dividing the equipment and components into different waste groups such as: metal, cable, electronic, recoverable resource and plastic for recycling or combustion.

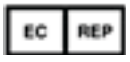
Most plastic components are provided with a plastic types code and fiber content to aid sorting of plastic parts.

Product	Metal Scrap	Cable Scrap	Electornic Scrap	Plastic recycling or combustion
ESCEYE	X	X	X	X
ESDEYE	X	X	X	X
EPC250	X	X	X	X
EPD250	X	X	X	X

Note: Recoverable resources are Lead-acid batteries containe int he controller and should be recycled.

KEY TO SYMBOLS

The following symbols are used on the label(s) of the Hausted products.

	Protective Earth		Manufacturer
	Earth Ground		Keep Dry
	General Warning Sign		Fragile, handle with care
	CE Mark		Electrical and electronic equipment
	ETL		Consult Instructions for Use
	European Authorized Representative		Caution

Hausted®

www.hausted.com
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Manufactured by:
GF Health Products, Inc.
Fond du Lac, WI 54937
Proudly made in the U.S.A.

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